

APPLIED SCIENCE READING ROOM

Farm and Ranch Review

VOLUME LV.
NUMBER 5

CALGARY, ALBERTA
MAY, 1959



"RIDING FENCE"

- *Higher than Kites*
- *Green Haven in a Dust Bowl*
- *Horses of Every Color*
- *Witchery of the Bow*

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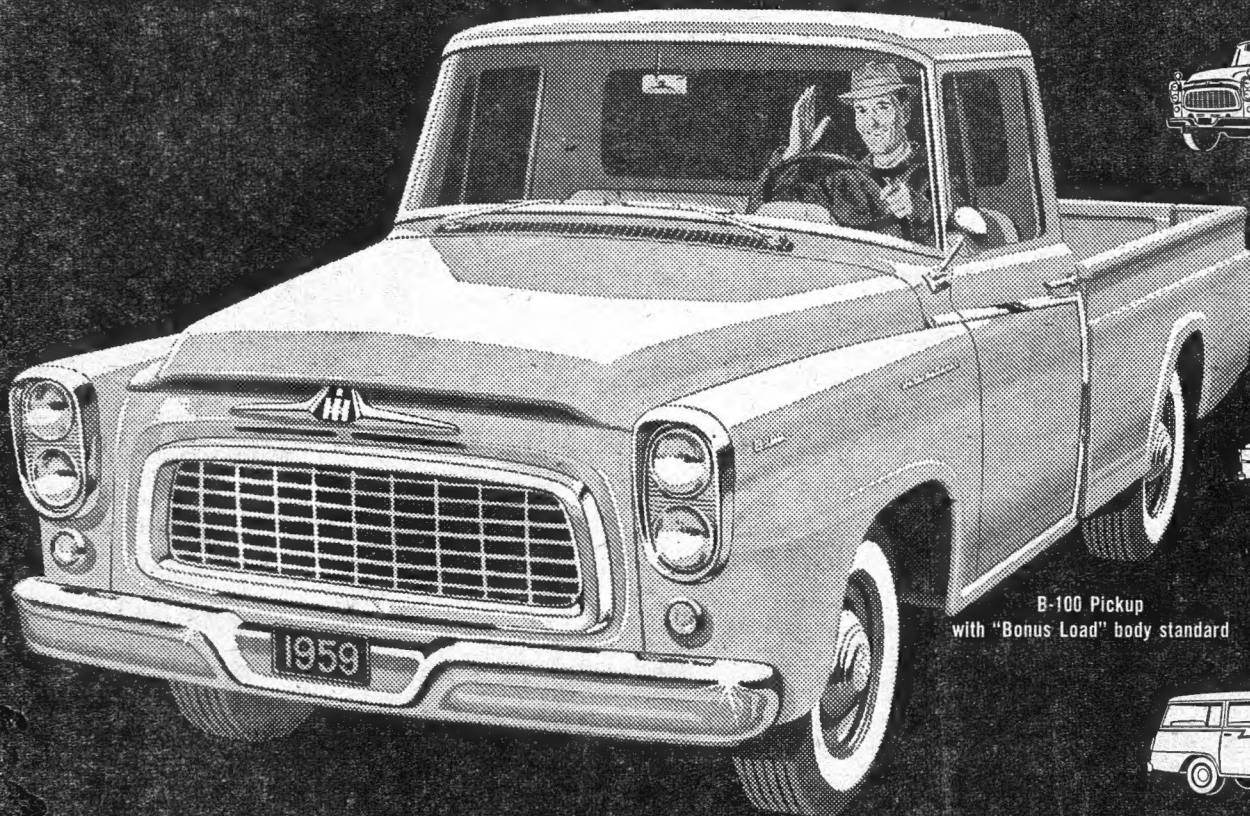
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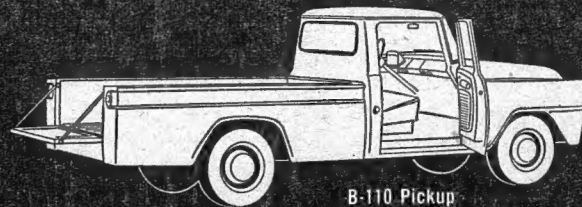


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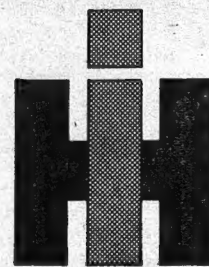
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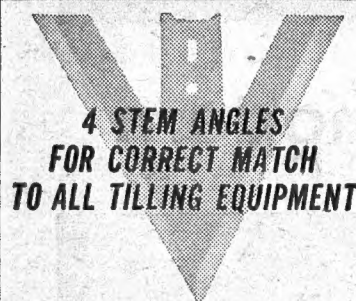
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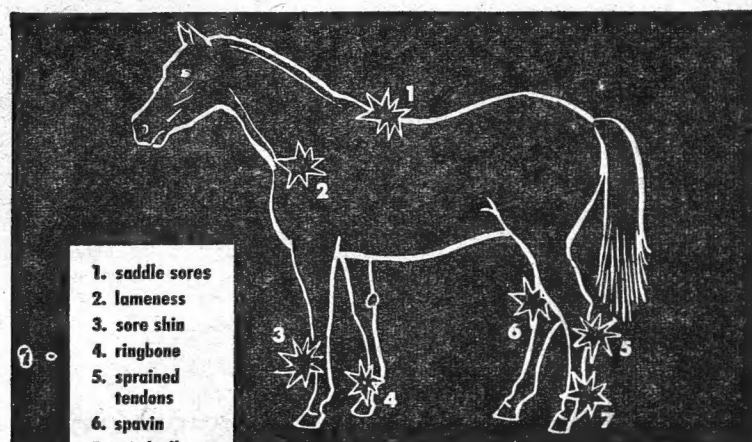
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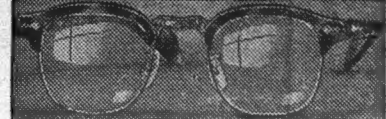
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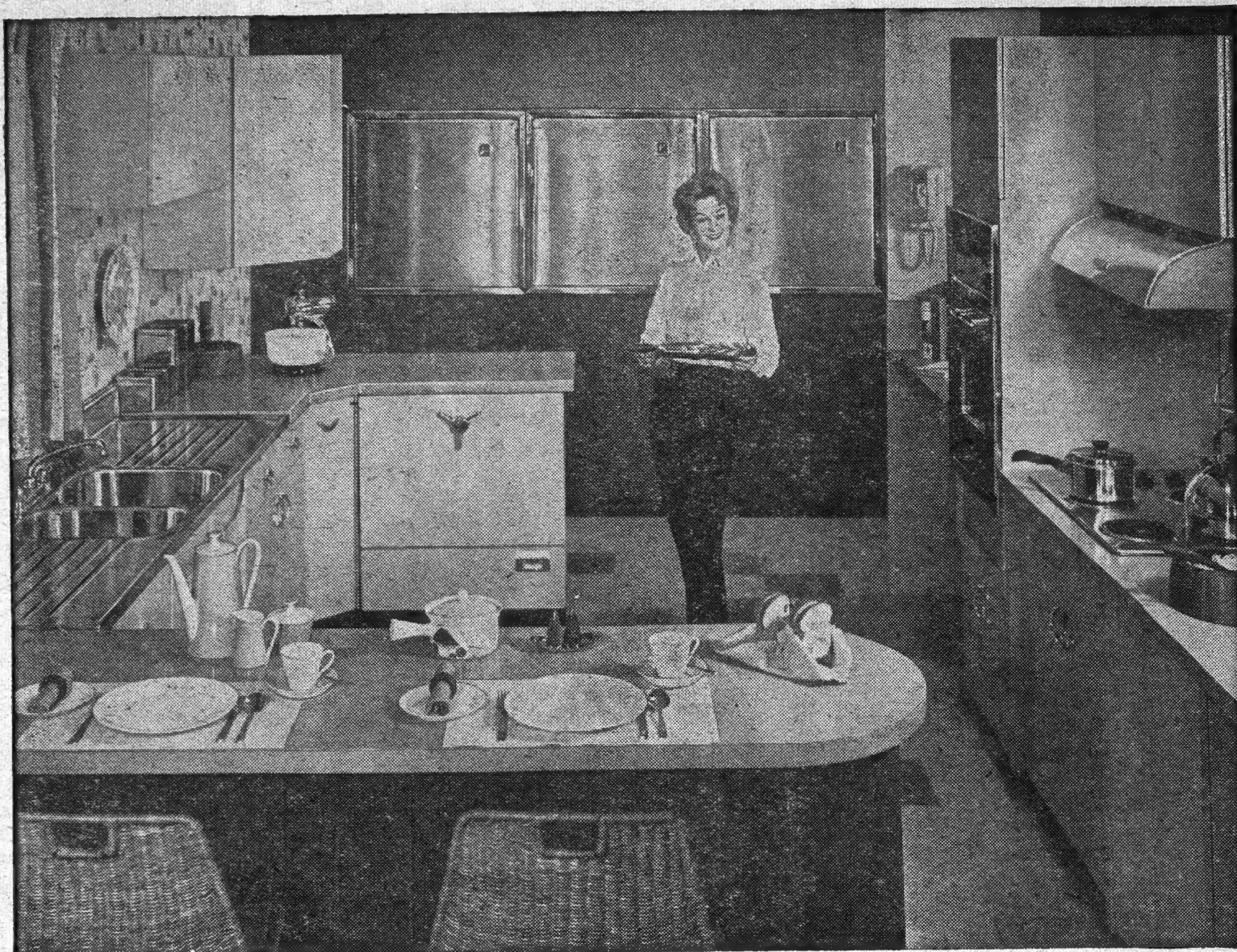
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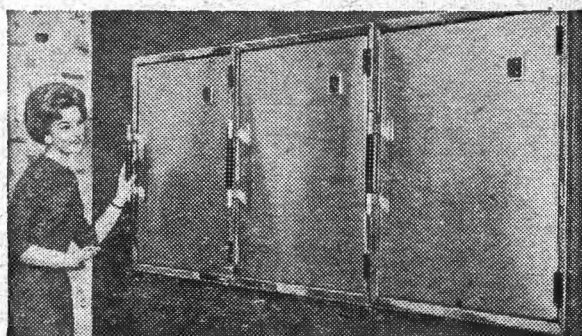
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Editorials...

Evolution is hard to stop ... if we can't beat the trend perhaps we should join it

FOR a long time now farmers have been reminded that producing swine is a long-term business. It has its ups and downs but the alert operator is able to keep the average high.

Farmers are also continually reminded that what they might not be able to do alone, they might achieve collectively. More recently the accent has been placed on the family group or syndicate to provide the capital, property or know-how to rebuild the efficient farm enterprise, rather than try to include every man and his dog in a loosely knit co-op.

This has particular significance today when considered in the light of present and probable future markets.

At the present time the porkers are having a real ball. The party is being thrown by grain farmers all over the place who are kept in business by a combination of ready feed and the government floor price. The result, as usual, is that the in-and-outers have produced a surplus. Hog marketings increased by nearly 20% in 1958 over the previous year which, came to a million more hogs (and, incidentally, with absolutely no increase in quality). When either the feed supply or government floor price is cut back, farmers will be squeezed out of the hog business in the hundreds.

The interesting thing about all this is that even in the face of a surplus, a surprising number of farmers are taking a big gamble and investing heavily in their hog farms. Several farmers, (or groups) notably in Alberta which supplies a third of the nation's pork, are even now going into debt to pour money into buildings, equipment and the very best in breeding stock. Some of these will fail, but others will succeed.

Rather than producing for a glutted market, they are building their operation and hoping to ride out the surplus cycle. About the time so many others will be going out of hogs, they will start producing. They will not only be the most economical producers but the animals they market will probably get the premium price every time. By the time they clean up their debts and get their heads above water they will be running sound and profitable operations.

Now the point here is that when these people get organized, there is bound to be a lot of finger pointing by others in the farming business. They will probably be referred to as "the big guys" who are hogging the market and crowding the "little guys" out. It is about then that someone will demand special government assistance for the others, and the establishment of marketing boards to cut down any advantage these alert and progressive individuals have won for themselves. Naturally, having taken a big chance, and overcome their difficulties without outside "help" these efficient operators will want nothing to do with marketing boards or government interference.

It's so easy to forget that the "big operator" was once a little guy too. But he took a long chance; he may have tied up his property, mortgaged himself to the hilt and invested in the future just when so many others were coasting on a subsidy and easy feed supplies. He will deserve every dollar he earns because he will be producing efficiently, producing top quality, and doing it without relying on others.

Still, there are bound to be sour grapes. But then, that may be part of the price one must pay for success.

and the failure to realize that the real enemy lay within the gates of the empire in the moral decay of its people.

5. The decay of religion and the fading of faith into a mere form, leaving the people without any guide.

How does our society compare with that of Imperial Rome that once ruled the Western World? What about our mounting divorce rate, climbing taxes and government extravagance? What about our gigantic armaments and growing nationalism at the expense of others? Has the telephone and automobile brought more home life or turned the home into a clearing house for outside activity? Now that TV has brought wrestling into the drawing room, and gunplay into the nursery have we more fair play and athletic skill? What about religion? Is mankind simply going through the motions or does he know what the symbolism is about? Or is he on the golf course or sleeping it off from the night before?

In the light of today's conditions the tailings of ancient Rome make a rather sobering comparison with our own

Dairy beef

FROZEN water pipes prove that dairy cattle can be profitably fed for beef.

Now that isn't really true! The pipes didn't really freeze, as far as we know. Nor was anything really proven. Nevertheless, preventing the pipes from freezing has indirectly confirmed a possibility already familiar to so many farmers... that dairymen may climb on the cattle-feeding bandwagon as a money-making sideline.

It all happened when a recent feeding test for dairy steers was initiated more by accident than design. During the early stages of a certain beef testing program underway at Guelph, the number of animals involved was not sufficient to keep the water pipes in the barn from freezing. Several pure-bred Holstein steer calves boarding at the testing station were drafted to help provide sufficient body heat.

Following their usual tidy habits, the researchers put all the animals in the barn under the same test. This included a feeding trial and a carcass appraisal at the end of the test.

The results were so spectacular that the test was repeated on two different occasions, and each time it showed that the dairy steers had by far the greatest rate of gain with the least amount of feed. It was true that the dairy steers did not grade quite so high as steers of beef breeding, but this was more than compensated for by the consistently higher rate of gain.

Reporting to the Holstein Friesian Association Annual Meeting, Ontario's Livestock Commissioner, W. P. Watson, gave details of the tests, and told the assembled dairymen that as long as beef prices remain attractive, commercial dairymen can continue to find the most profitable market for their herd increase (except for replacement heifers) in the form of veal calves. But if prices for this decline, owners of grade herds should give some thought to feeder cattle.

Why not? With buyers taking everything in sight that has four legs and looks like a calf, and with grain farmers selling their surplus grain in cow hides and pig skins, there is no reason why dairymen shouldn't get their slice of the beef bonanza.

Mark up

FARMERS are annoyed not so much at what they are paid for their foodstuffs but at what consumers have to pay for them at the end. The Ontario Federation of Agriculture puts this in a dramatic nutshell

If a farmer buys a steak on a railway car (or at a high-class hotel for that matter) and pays the customary 10 per cent tip, then he is paying the waiter as much as he received per pound carcass value for the steer from which the steak was cut.

In other words, the waiter gets as much in a tip (apart from his salary) for carrying the dinner a few paces as the farmer did, per pound, in caring for and feeding the original animal for two or 2½ years.

It is a curious insight into the economics of our much-vaunted capitalistic society!

—Reprinted from the Windsor Star

Decay of an empire

ONE of Mankind's most tragic weaknesses is his failure to benefit from the lessons of history. Yet those lessons have been recorded by scholars for centuries.

Not the least of these was the famous historian Edward Gibbon, who dedicated many years of his life to future generations by his precise research into the causes and effects of social changes. In his classic, "The Decline and Fall of The Roman Empire", he cited the five primary causes for the deterioration of that historic society:

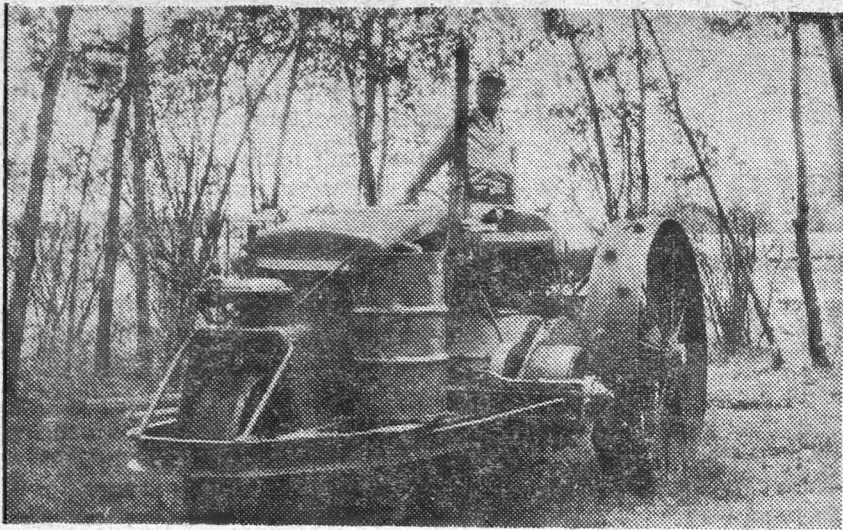
1. The rapid increase of divorce and the undermining of the sanctity of the home.

2. The spiralling rise of taxes and extravagant spending.

3. The mounting craze for pleasure and the brutalization of sports.

4. The building of gigantic armaments

Guided Missile?



Farm and Ranch Photo.
This three-wheel Case gasoline tractor, 1020, was donated to the Manitoba Memorial Agricultural Museum by C. G. Hunter, of Sidney, Manitoba. The driver can't see the front wheel so a small arrow mounted over the front pointed which way he was going.

A little wheat— —a little chaff

by IVAN HELMER

TOO many modern cars only last the owner's lifetime.

RECENT news items confirm a sneaking suspicion we have long had that TV and movie gun-slingers who can knock down a miscreant on a galloping cayuse at 40 rods with a six-shooter wouldn't live to see the sunset with real guns: At Golden, Colorado, the president of the local Gun-slingers' Association shot himself in the leg when a gun he was 'fast-drawing' discharged too soon; and in Michigan a TV gun-student drilled himself in the thigh while practising a cross-over gun-draw he had just watched a Western hero perform. Perhaps the Bat Materson walking stick would be safer for amateurs.

AND what about the Daniel Boones? A forestry conservationist in Wakenda, Missouri, vouches for a hunting incident where nine hunters fired at a rabbit flushed by their dog. The rabbit wasn't hit, but the dog was.

MONEY still talks, but about all it can say is: "Good-bye."

And a U.S. manufacturer offers a thingamajig said to reproduce the sound of falling rain — attachable to your bed. All you need to acquire one of these is the desire to "drop off" to the pitter patter of rain on the roof — and \$125.00.

THE trouble with saving money, for a rainy day, is that it keeps shrinking.

BRITISH underthings makers have pulled a bloomer. 1,000's of British ladies, a London newspaper dispatch says, are in danger of losing their panties, if they have not already done so, at any moment.

It alleges—we don't want to be held for libel—that a manufacturer of bigger, rather a big manufacturer of women's panties was gluing the elastic bands together instead of sewing them. And under stress, after washing, etc., the things became unreliable. The first victim, the story alleges, was a Countess, opening an Exhibition in Edinburgh. Naturally as she stood there full in the public eye, aware of the treacherous let-down, the Countess,

wished she'd stayed at home, or at least gone for a \$3.98 pair instead of a bargain.

If she had worn a kilt to Scotland, no doubt everything would have been okay because we have always understood that with kilts . . . Anyway the firm has been checked, its safety methods rectified, and future buyers will be able to hold their heads up.

GOLF is about the only game where a poor memory helps your score.

POETRY department:

MUDDLE OF THE ROAD

What causes highway accidents?

Well, experts all conclude

The gasoline is too refined,

The drivers much too crude.

Anna Herbert in *Highways or Dieways?*

THE inexorable infiltration of man's world by the gentler sex goes on: "Denmark," a news item reads, "is the world's leading cigar smoker with a per capita consumption of 207 cigars a year. This figure would not be possible without the active co-operation of Danish ladies. It is not uncommon to see women puffing stogies in Denmark."

AND in Indiana a city official has given up his fight against indecent reading matter on the local newstands. He threw in the towel, he says, while reasoning with a news dealer on the matter and two elderly women butted in to ask for "pin-up pictures of men with big muscles."

TODAY'S version of an old platitude seems to be: if at first you don't succeed — to hell with it.

AN eastern Canada lawyer talking against capital punishment has said that he has found no evidence that hanging persons convicted of murder is a deterrent to murder or protection for society. He may be right, but on the other hand, it is a sure cure for the habit.

IT'S ironic, but the smoother a guy's line the quicker he's apt to get on the hook.

HE who laughs last is probably just tired of poor jokes.

THE STRANGER

Who's the stranger, mother dear,
Look: He knows us—ain't he queer.
Hush my own, don't talk so wild;
He's your father, dearest child.
He's my father? Not at all,
Father passed away last fall.
Father didn't die, you dub,
Father joined the curling club.
But they've closed the club, so he
Has no place to go, you see . . .
No place left for him to roam . . .
That is why he's coming home.
Kiss him, he won't bite you child,
All those curling bugs look wild.
Bring his slippers to the chair
For he is tired and full of care.
Ask the minister to call
And help to build up his morale.
I hope his pastor will him show
That there's no curling done below,
So he will seek the better place
Before he gets too tough for grace.
Kiss him, he won't bite you child,
All those curling bugs look wild.

—Stettler Independent.

AND here is a couplet by F. G. Kernan in *Successful Farming*:
SMALL BOYS' TOWEL
There upon the rack it stands,
A thing untouched by human hands.

IN 1919, Bob Edwards wrote, in the *Calgary Eye Opener*: "There is no use trying to be funny about prohibition. To the wets there is nothing funny about a dry situation — and the prohibitionists never see humor in anything."

MOST women realize that their place is in the home and they intend to get one, mortgage or no mortgage.

A WORD to the meek, waiting to inherit the earth, should be sufficient for now it seems that these patient folk may be done out of their inheritance. A Chalk River atom scientist is responsible for this conclusion. He is experimenting with a South American insect, *Rhodnius* (known to the unscientific as the "kissing bug"). This half-inch (and up) bug, says Dr. W. F. Baldwin, "can emerge smiling from a dose of radiation that would fry man like an egg. It can shake off a dosage 250,000 times greater than the lethal amount for humans." Dr. Baldwin tells us that the "kissing bug" might be the only living thing left to inherit the earth if nuclear bombs wrapped the globe in deadly fallout.

AN English writer talking about the hazards of acquiring a motor car makes this observation: "If you are lucky enough to have friends, and do not mind losing one, you might try buying a friend's car; but go into the thing with your eyes open, on the clear understanding that when the experience is over you will never want to hear his name mentioned again."

NEVER do today what you can put off until tomorrow — in the meantime there's a good chance someone will have invented a machine which will do the job for you.

THE trick in making money nowadays is not so much, apparently, knowing when to go into business as in knowing when to get out. A U.S. storekeeper discovered with a shock that the hula-hoop craze had stopped overnight, leaving him free to go roll 1,440 hoops. He slashed the price to 19 cents. Nobody wanted some. Now he is trying to unload, to kiddies making a purchase, free, and with a 10c cash bonus for taking one away.

HERE is a tip for M.C.'s harrassed by windy after-dinner speakers: An Irish paper relates that a South African tribe considers long speeches not only injurious to the orator, but to his victims. To protect both, they have an unwritten law that every speaker must stand on one leg while addressing his hearers. As soon as his foot touches the ground his speech is brought to an end — by force if necessary.

A TOURIST claims he was in a bar where a sign read: "Your wife can only kill you once — why not stay awhile longer?"

ATHLETIC groups are the latest in the ranks of the mixed-ups, even though it seems unlikely that a whole team would have suffered childhood lack of love, miserly allowances, and a curb of their boyish whims. Nevertheless, in Germany an adult soccer game had to be called off when the visiting team, frustrated from trailing 3 to 1, kicked all four of the home team's soccer balls into the nearby river.

"ALL progress," wrote Samuel Butler, "is based upon a universal innate desire on the part of every organism to live beyond its income."

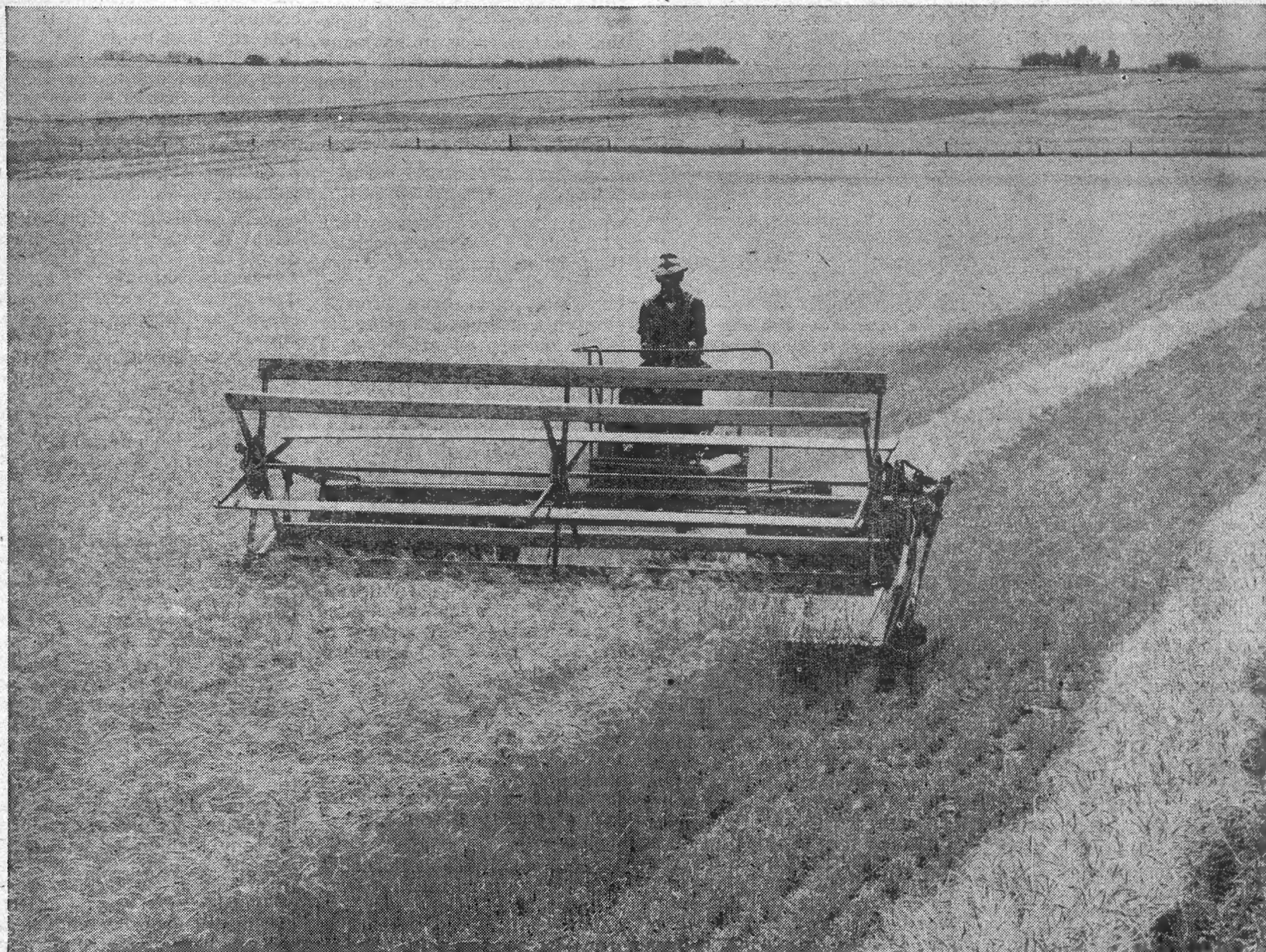
WITH all the talk about what is wrong with schools and the educational systems it may be of interest to have another viewpoint. The late Alexander Woolcott once wrote about parents trying to handle a very brilliant child at home. There were no quiz shows in those days and thus no money to be made with precocious offspring. Anyway the home treatments were a flop and Woolcott wrote: "At this point they sent him to school after all. His mother thought this was the best way to stupid him up."

KENNETH BIRD, a British speaker talking on a radio network, said: "The average Hi-Fi Maniac—not all, but the average — listens not for melodies or symphonic structure, but for notes that don't ring true. Harmonic distortion, whoofs and whistles, wow and flutter, that's what he wants to hear. Yes, wants to hear, for it will confirm his suspicion that the wretched machine isn't flawless. He's just within perfection, but he isn't there yet! But he'll get there! Yes, he'll get there even if he has to fill the room so full of wires and transformers that his wife can't get through the door."

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Many people are again saying that the horse is here to stay. But the place of the magnificent draft horse of yesteryear is being taken by the trim and fancy riding horse.

Horses of every shape and size

by GRANT MacEWAN

BUYERS and sellers made horse history at Calgary in April. Anybody guilty of saying or thinking that "horses are a thing of the past," should have witnessed the 1959 Calgary Horse Sale — almost as imposing as the nationally famous Calgary Bull Sale. Auctioneers working through four long days sold 1,090 horses from the 1,216 head entered, to make it the biggest event of its kind ever held in Canada.

And for purposes of the record, the four-day event concluded with the sale of three sad-faced donkeys, trucked all the way from California. Selling at the modest price of \$50 each, their presence proved only one thing, that the people who want horses will not settle for Mexican burros.

All in all, this was more than "just another sale." In a striking way it demonstrated the completely new character of Western Canada's horse industry.

Interest and attendance were reminiscent of the horse sales of earlier years when horses were still the chief means of draft power on western farms, but in more respects, the event was strangely different. Unlike the pioneer sales, less than one-quarter of the horses offered were of draft type — and they were the least wanted. Horses of the heavy kind, once numbering over 3½ millions in Canada, now represent only a fraction of a million and their decline must continue because horsemen are not breeding for replacements.

But it is reasonable to expect that draft horse population will ultimately be brought into conformity with demand and subjected to complete readjustment in values. And as demonstrated at the recent sale, a limited number of draft horses possessing soundness, quality and moderate youthfulness can command respectable prices today. The 263 heavy horses going through the Calgary sale ring the other day, brought an average price of \$112 but a team of roan Belgian mares contributed by Jack Shecter of Edmonton was bought by Alberta Packers for \$470. Other heavy teams went for \$455 and \$400 and a big gelding sold for \$180.

It must be understandable, however, that more of the Percheron, Belgian and Clydesdale horses offered for sale now are aged or ancient and very few people have enough interest or faith in future demand to embark upon breeding programs.

Noticeable, also, is the relative disappearance of the former skills in presenting heavy horses for sale. Gone, it seems, is that once-universal pride in being able to lead a draft horse and set him up to command all attention. Gone are the days when it was considered an "unpardonable sin" to turn a haltered horse the wrong way when showing before a buyer or judge.

There are still some who can transmit their skill through a halter shank to make a horse look like an extra \$50 worth, but not many and the glamour of the horse sale has shifted to

light horses and those horsemen who choose to display their skills from saddles. Nobody would minimize the importance of good riding techniques but light horse people should be encouraged to pay more attention to the very real art of showmanship when their animals are being presented 'on the halter.'

Anyway, they were the light horses which dominated that recent sale and they were something to see and study. A visitor confessed: "I didn't know that horses came in so many sizes, shapes and colors." Almost all the known kinds were there. Height ranged from 10 to 17 hands and age from two weeks to something over a quarter of a century. There were aristocrats tracing to Man o' War and there were those specimens whose sires were dark secrets. And nothing was more variable than color, Palominos, Appaloosas, pintos, greys, blacks, buckskins, duns, bays, browns, chestnuts, sorrels and some for which neither an artist nor a dress-goods clerk would have a name.

It was perfectly obvious that buyers and sellers alike were being influenced very greatly by color — too much so. Sorrels and chestnuts were plainly popular; bays and browns had to be particularly good to be attractive to many horsemen; some buyers wanted pintos and nothing else; some wanted Palominos and a visitor from the United States managed to buy most of the horses with Appaloosa markings.

An attractive color can no doubt make a good horse more valuable but coat color, no matter how distinguished or unique it may be, should never be seen as compensation for lack of quality or soundness or disposition.

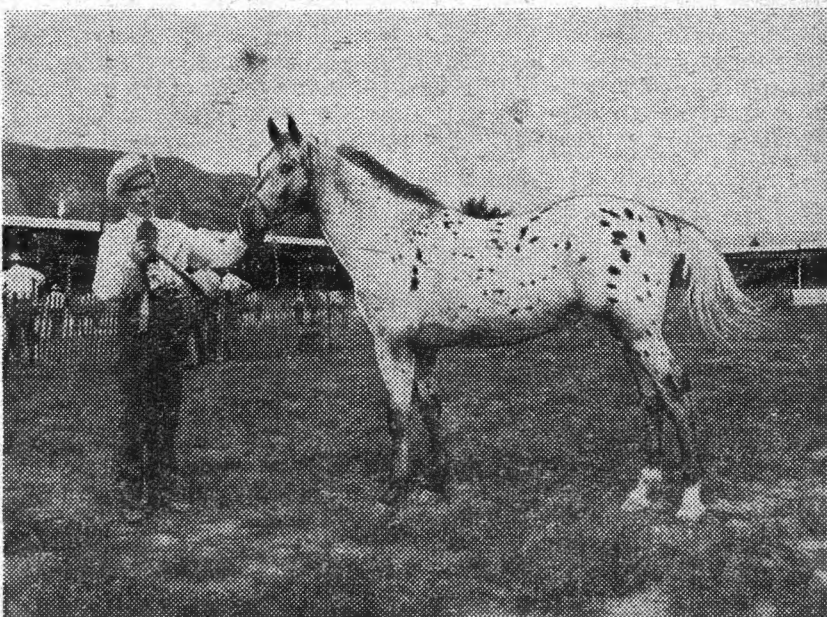
Scotland's Amos Cruickshank said that "a good beast is never a bad colour." He might have added that a "poor beast is never a good colour," and it would be unfortunate if light horse people were to sacrifice

the essentials in good conformation for the sake of some rather superficial glamour in coats.

Indeed, light horse enthusiasts might consider the need for more education about type and conformation. The art of good riding is constantly stressed and anyone attending sale or show will see ample proof of equestrian skill in this. But how many of those who own and enjoy light horses have sound knowledge about withers, backs, croops, hocks, cannons, fetlocks, pasterns, hoof-heads, heels and so on? A young man who has won many trophies for riding confessed that he was still quite uncertain about what constituted a good hock. The challenge of directing attention to type fundamentals in light horses is very great and buyers, owners and users of light horses might discover as draft horse people discovered long ago, that a superbly-shaped hind leg with quality and wearing ability may be just as inspiring as a glamorous neck and head — and more inspiring than an unusual color pattern.

The 827 head of light horses and ponies at the recent Calgary sale changed hands at an average price of \$144, about five dollars a head less than was paid in 1958. The highest price was \$900 for a registered Quarter Horse mare brought in from Nebraska and bought by champion rodeo performer Bud Van Cleave of Taber. A five-year-old sorrel mare with excellent manners sold at \$720 and several others at \$500 or more.

Well muscled horses for stock saddles were in strong demand and training was more important to the buyers than breeding. The same was true of ponies, the biggest call being for color and such reliability as would be necessary in children's mounts. A pony stallion brought \$400 and the recent popularity of the little horses — especially those of Welsh size — was adequately confirmed. Probably nothing in the sale barn attracted more interest and admiration than four very stylish Shetlands, entered



Buyers at an astonishingly successful Calgary horse sale were largely influenced by color and showiness; something distinctive such as the Appaloosa shown above.

by W. W. Shultz and H. H. Doliver of Conrad, Montana.

But the pony buyers were more anxious to get dependability than showiness. They were looking for pets and companions for boys and girls and displaying good judgement.

What, one must ask, is behind this vigorous interest in light horses and ponies? What takes the business man to the horse sale? Why are father and mother there with their small son, examining ponies, even though, by their own admission, they know nothing about horses apart from colors? Is it perchance, a logical reaction to an age of mechanization?

More people have an urge to find their recreation with horses and more of those business men who are building homes beyond the city limits want to have a horse or two in the back yard.

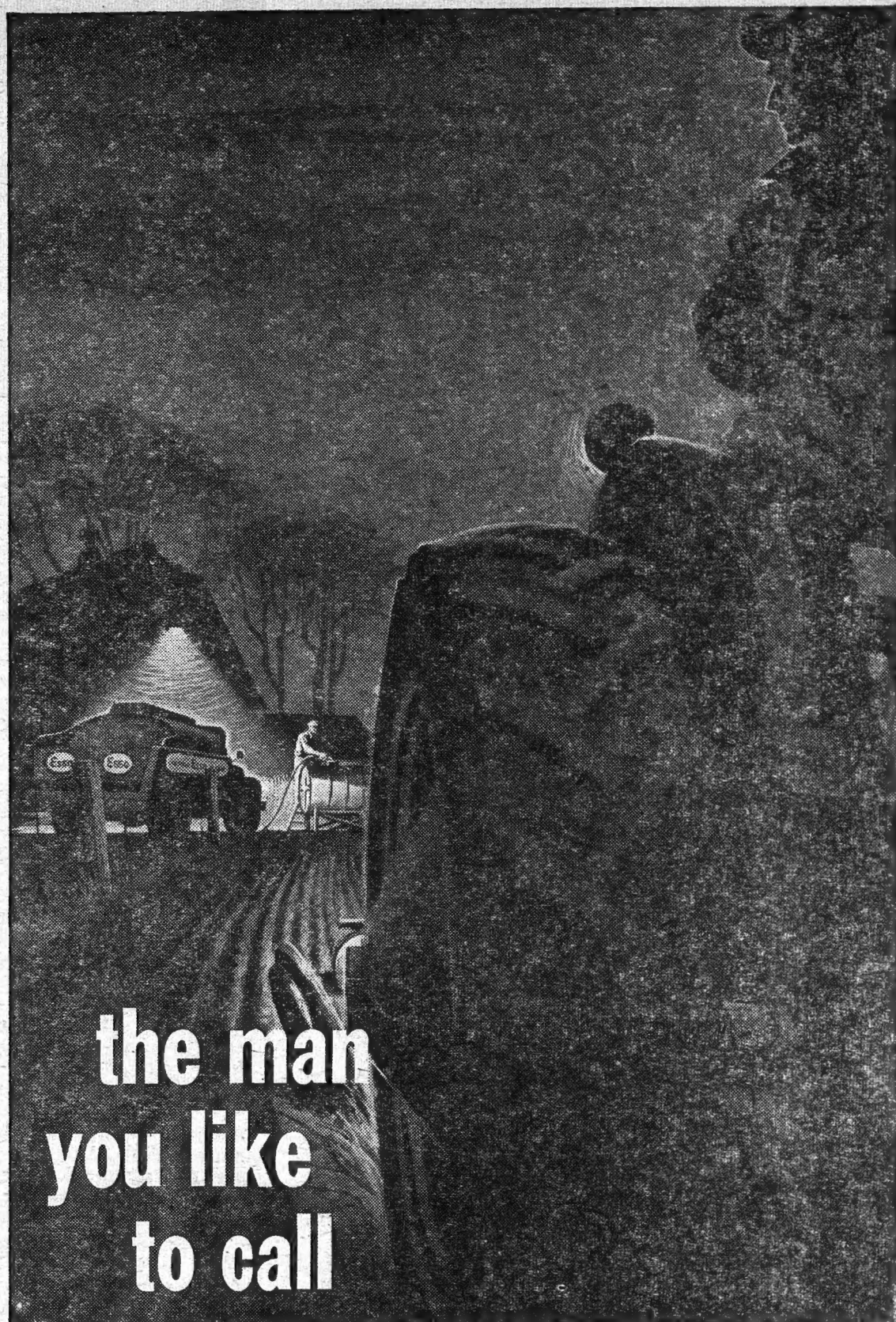
The parental desire to get a pony for the child is more than a matter of providing a luxurious play-thing; it is, in many instances, a conviction that the child growing up in a present-day town or city has a genuine need for the experiences and associations afforded by horses and ponies. Machines are cold things and children may have need for pets with feeling and warm skins and wet noses.

And so, the breeding, training and sale of good horses are matters of importance. The nation is likely to need a few draft horses and a lot of stock horses, pleasure horses and ponies. There is no lack of suitable breeding material but it would be well if we could stimulate more interest in quality, regardless of the type and breed being propagated. The recent sale, impressive as it was in many respects, demonstrated rather clearly that quality as it applies to feet and legs and general refinement is overlooked too often.

Iron injections for pigs

HOW do the modern injectable iron-dextran compounds compare with the older methods of preventing anemia in baby pigs? Very well indeed, says H. Doornenbal of the Lacombe Experimental Farm, who has been conducting tests along these lines.

The important point, he says, is to see that the little pigs receive enough iron through these injections. It is estimated that around 200 milligrams of iron are required during the first three weeks of life, only a small amount of which is obtained from the sow's milk. 100 milligrams of iron in a 2 c.c. injection when the pigs were three to four days old, followed by a 1 c.c. injection at three weeks of age, provided a satisfactory safeguard against anemia in the Lacombe tests.



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Modern Robin Hood's confine their skill largely to target shooting, but modern bows and arrows range from toys to those as strong, accurate, and deadly as any our forefathers knew.

Witchery of the bow

By Kerry Wood

LAST evening friend Blake interrupted a two-hundred-mile drive to drop in for a five-minute chat and a cup of tea. He left five hours later, all because of seeing the picture reproduced on this page which shows two boys inexpertly bending a pair of hickory bows.

"I made bows out of willow when I was a kid," Blake confessed, "but I've always been tempted to go buy a proper archery set and take it up as a sport. Is it interesting?"

Back we went, into the fascinating history of archery. The oldest known statue of a human figure is that of an archer, standing at full draw. The age-old weapons spread to every far corner of the world, even to isolated Australian blacks who carried twelve-inch bows with which they shot tiny arrows at birds. Chinese and Japanese used laminated bamboo for making their cumbersome bows, shooting arrows four feet long the relatively short distance of only thirty yards. South American Indians became adept at shooting fish in river waters with arrows six feet in length. India's literature is full of references to archery; they developed bows of water buffalo horn and used a brass ring as thumb protector when drawing the sinew string. The famous English longbow was really the Welsh war-bow, a marvelous weapon that won the important battles of Crecy and Agincourt to establish Britain as a European power. But the best archery bows of all time looked like the letter C when unstrung, becoming the traditional shape of Cupid's bow when ready to shoot. They were Asiatic composite bows made of cleverly

laminated wood and horn, sinew and pliable glue. Using those far-shooting, powerful bows, horse archers under Genghis Khan enslaved the largest empire in the history of the world.

Then there is the amazing story of two brothers who, as defeated Southerners, were denied the use of guns after the American Civil War, so they used bows and arrows to bag game in Dixie swamplands and left behind a classic volume of their adventures. In that "Witchery of Archery" book there is the poetic statement: "So long as the new moon returns in heaven a bent, beautiful bow, so long will the fascination of archery keep hold of the hearts of men!"

Friend Blake was curious as to why Marjory and I had delved into archery's history, so we had to tell him about the first hectic years of our marriage. We'd taken up bows and arrows as a pleasant outdoor hobby, roaming the fields with a group of good companions and shooting at stumps, lumps of earth, or even pesky gophers as we learned about such technicalities as Points of Aim. At that time it wasn't possible to buy archery tackle from any western Canadian store, hence friends asked me to make them bow and arrow outfits. Bingo! For seven years I was a tackle-maker, hardly getting time to write as I turned out bows of yew, osage, hickory, and lemonwood, arrows of Orford cedar, fir, and birch, armguards of calfskin and moose-hide quivers, Cordovan leather finger-tabs or protectors, and bow-strings of linen hemp bound together with a special blend of resin and wax.

Every April was busy, after snow melted and it was possible to go outdoors again with bows and arrows. Orders came from farm boys and city businessmen, from an army general in Devonshire, even from an Indian at Banff! One man got special matched equipment from me and entered an old English military shoot that had been held annually for nearly four hundred years: his first arrow hit the 9-inch bull's-eye at 180 yards! A Calgary enthusiast became so expert he could hit a ping-pong ball swinging at the end of a pendulum string. Another fellow took on a Mountie in a gopher shooting contest, loser to buy the winner a steak supper. The policeman was an expert .22 marksman, yet the archer won the match.

There were tragic happenings, too. Such as the time a youth named Harold bought a

bow one summer's evening, carried it home in the deepening dusk, and could not resist having one straight-up shot. The arrow whisked out of sight in the twilight sky, while Harold stood peering upward. Down came the missile, a million to one accident as it slammed through his upper lip, knocked out three front teeth, then buried itself underneath his tongue. Always it had to be stressed that bows and arrows were dangerous weapons, not toys.

There was the tragic-comic episode of the farmer who became a crack shot; he could even shoot ducks on the wing. But one day he came to my workshop wearing a woeful expression as he complained that archery was an expensive sport. No, he hadn't broken his bow, nor he hadn't lost any arrows. Then why was it proving so expensive?

"Well, you know my Josephine sow that's won so many prizes? Maybe I've mentioned that the neighbor's scrub boar kept a pestering after Josie, and I got real mad about such mix-ups. One day last week when I saw that scrub a-trotting across the back pasture towards Josie's pen, I figured it was time to teach him a keep-out lesson. I aimed an arrow to smack that boar, and the darnedest thing happened."

"You killed it?"

"Worse'n that, my neighbor had papers to prove that scrub was a registered ani-mule, and I've had to pay plenty for his bereavement!"

At one o'clock in the morning, Blake had a final cup of tea before he left and said he'd be back soon for more chat about archery matters. Marjory and I looked again at the photo of the boy archers. We had nostalgic memories of our old gang, roaming the sandhills with graceful bows and watching the rushing arc of arrows speeding to the mark. Archery is fun!



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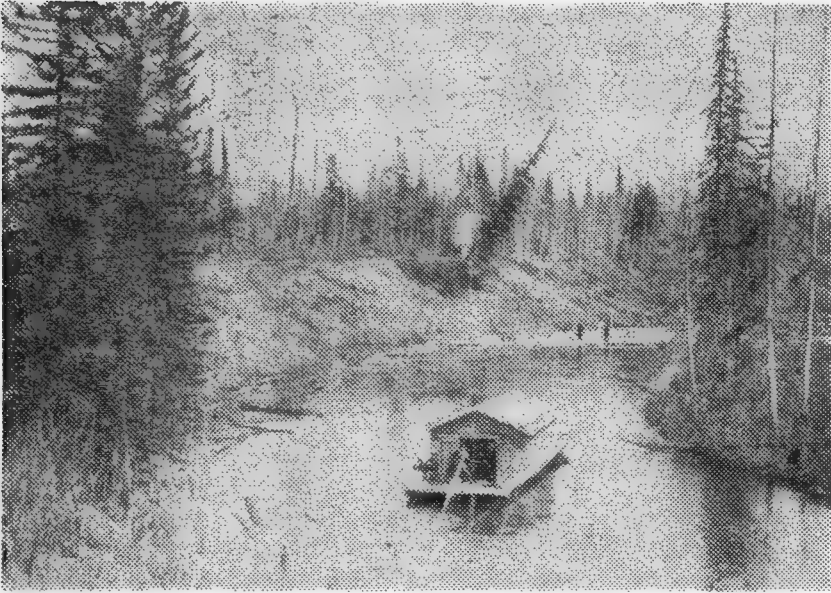
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The sheep dog of the log drive

—by F. A. TWILLEY



The "Wannagan" — a floating cook-house, time-keeper's office, supply depot, and the sheep dog of the log drive.

THIS vessel is not named the "Queen Mary" though it is like it in some respects. You can obtain just as good a meal on it as on the big ship, though without menu or table napkin. You can also buy things you may wish to. On the liner there are silk dresses, perfumes, and jewellery for sale as a service to its passengers. The river craft has as counterpart a supply of overalls, boxes of snuff and tobacco and, in case you may lose a button, a tin or horseshoe nails.

The "Queen Mary" is expected to last for 30 years after which it will be sent to the scrap heap no matter how seaworthy it may appear to be. That is, unless a war breaks out when it may be allowed to be in service longer. After 30 years, insurance companies will not risk money on ships.

About 30 days is the life of the "Wannagan" and its first voyage is also its last. This scow is a floating cook-house, timekeeper's office, supply depot, and could be termed the sheep dog of a log drive. Loaded with tents, blankets and provisions, it takes to the water at the start of a log drive and brings up the rear until all logs are safely delivered to the mill. As men are working on both banks of the rivers it sails along, it sees that they are fed and takes them along when their job is done.

As will be understood, the winter cut of logs have all been

brought out of the bush and piled on the river banks. As soon as the ice goes out and just before the flood comes down, the logs are dumped into the water. "Beat" crews have already been at work along the course to remove any trash pile-ups or ice jams that might result in impeding the progress of the logs on their way to the lake where the mill is situated.

The "Wannagan" follows along, loosening up any stragglers that have come to rest in eddies or held up in any way and pushes them into the current. A nasty job at times, with icy spring rains and sleety snow. Dangerous, too, everything being slippery. If a man gets hurt he is picked up by the scow and attended to.

Arriving at the mill, the timekeeper is ready with the men's time, all paid off and the colorful and perhaps enjoyable business is over until the time comes to go through another winter session. These northern Canadian rivers, the Red Deer, Eto-mami, Bowsman, Woody and Swan were all the scenes of such as this, and for 25 or 30 years provided work for hundreds of men. Pretty well a thing of the past around here now and lumbering is carried on in but a small way.

In any case, the lumberjack, a skilled and plucky fellow, is now almost a legend as, where lumbering is carried on, machinery has taken over. Caterpillars and hoists have no bones to break.



Log jams like this have to be sorted out in the spring if the wood is to arrive at the mill for cutting. Bringing up the rear the "Wannagan" helped release stranded and caught logs along both banks until the lake and the mill was reached.

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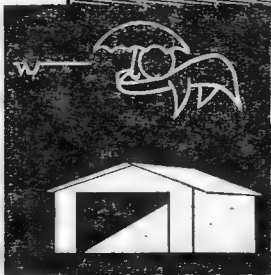
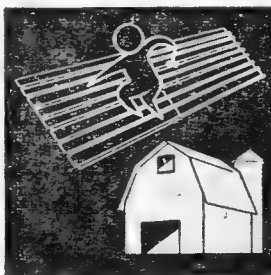
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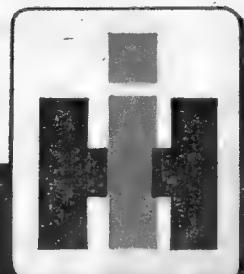
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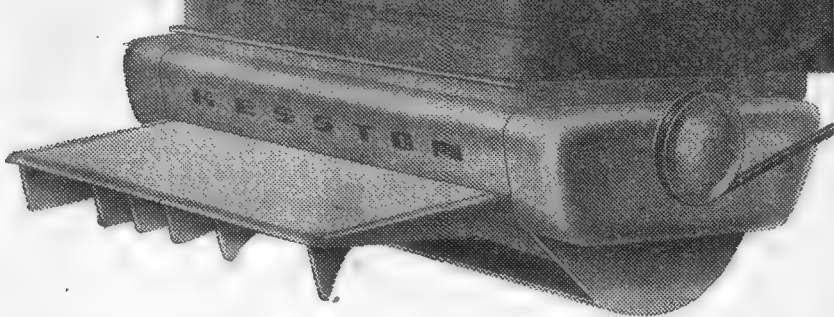
THE 10,000,000 calf from artificial insemination at Milk Marketing Board centers in England and Wales was born recently.

FOR proper germination and good stand seed must be placed in direct

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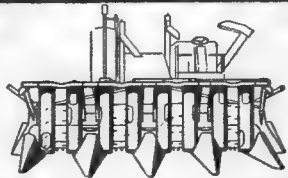
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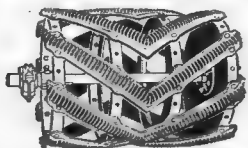
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DON'T abuse pasture by too early grazing. Let your grass grow to a height of at least 5 or 6 inches before you turn your stock onto it.

ACCORDING to Britain's Agricultural Research Council, which is responsible for the tests, results show that the Strontium-90 (radium activity) of human diet has nowhere reached levels to cause concern regarding human health.

WOOL fabrics have been unearthed in the ruins of villages inhabited by the Swiss Lake dwellers, ten to twenty thousand years ago.

TREES for timber, for shelter and for beauty, 1,850,000 in all will be planted this year in a stepped up Manitoba program of reforestation and conservation.

PASTURES should not contain more than 50 per cent legume if bloat is to be kept to a minimum. Dry hay fed before animals are put out and made available in the pasture also reduces the danger of bloat.

DO you know that farming is the third most dangerous occupation? Only mining and construction are more hazardous.

THE Agricultural Institute of Canada and its affiliated Societies is holding its 39th Annual Convention at the University of Manitoba, Winnipeg, Manitoba, June 22 to 25 this year.

A LARGE pole loafing barn used to winter the beef herd at the Nappan Experimental Farm was used as a confinement shelter for chickens during the summer months. It provided excellent rearing facilities and extended the usefulness of a building which normally lies idle during the summer.

THE Manitoba game branch does better than the weather man. It predicted that wild geese would begin the return to Manitoba on March 24th—and they did.

OF 104 prizes awarded across Canada by a national wildlife magazine, Manitoba caught fish won \$1. A grayling caught at South Knife River won first prize in that class while a great northern pike caught at Lac du Bonnet won that competition.

AN experiment at the University of Saskatchewan indicated that steers which received bedding gained a half pound a day more than steers that received none. Value of the half-pound per day gain, in this experiment, was approximately \$13.00 per steer tested.

BORN—to A.I.—a calf—first, in the second generation of animals produced from frozen semen in the Morden dairy cattle breeding project.



"I've located that pounding noise in your motor."

SHEEP favored Russian wild rye and Summit Crested wheat grass in an 18 day grazing test at the Swift Current Experimental Farm to determine the co-existence of grasses and legumes on local pastureland.

Sandhills AUTOMATIC CATTLE OILER

ALWAYS ON GUARD Protecting Livestock against profit-robbing flies and lice. Cattle automatically treat themselves. Keeps cattle contented... Conditions hair and hide. The Low-Cost labor-saving way. Cheaper and easier than spraying.



There's an Automatic Oiler Tailored for your Specific Use... Prices start at \$23.95...

"All-Steel" model recommended for feeder cattle—dry lot use. Cable-washer rubbing element is built to last a lifetime.

"Rope-Wick" model recommended for dairy use—cattle on pasture. Giant size marine rope rubbing element is rot & wear resistant.

FULLY AUTOMATIC—Insecticide is released only as cattle rub... just fill the tank and forget it—No service problems.

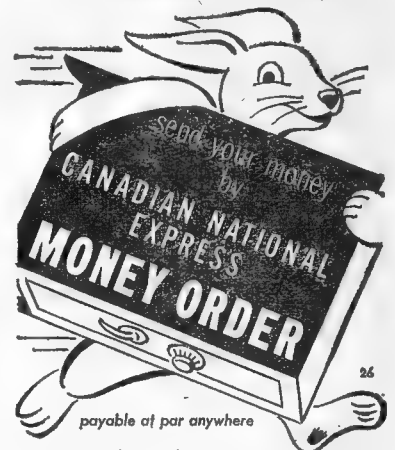
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- ☐ Livestock & Field Sprayers
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- ☐ Grain Rollers—Krimpers
- ☐ Feed & Molasses Mixers
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CANADA'S chicken hatcheries reached an all-time high in production during 1958.

The total hatch was 123,543,868 chicks in registered hatcheries, and this exceeds the 1957 production by about 14½ million chicks. All of this increase was in broiler type chicks.

THE Brown Swiss breed of cattle is making its first appearance in Manitoba. Mr. Bill Hickman, of Birch Bay, has bought four registered cows and a bull from a breeder in N.D.

WILLIAM ELLIOT, Stonewall; John D. Cameron, Winnipeg, and George Kelso, Roblin, have been made life members of the Manitoba Dairy Association, for outstanding contributions to the dairy industry.

TWO new entrance scholarships, worth \$300.00 each, in Agriculture at the University of Saskatchewan, are to be provided by the Sask. branch of the Canadian Seed Growers' Association.

THE first successful sales of homogenized milk, in the world, were made in Ottawa, Ontario, in 1927.

IT is said that Canadian and U.S. farmers, last year, produced an all-time record of crops from the smallest acreage in 40 years.

IN 1959 it is estimated that U.S. broiler production will reach almost two billion. Man that's a lot of chicken! 12½ for each man, woman and child.

THERE are 27,708 registered brands in the new Brand Book recently published by the Alberta government.

A MACHINE which won honors at a British Poultry Exhibition "dry-cleans" 1,500 eggs per hour, removing all dirt from the shells and mildly polishing them without affecting their protective covering.

WEED losses in Canada, some \$400,000,000.00 are said to exceed the combined losses from insects and plant diseases.

CONTROL of insects in farm-stored grain is important and farmers are urged to make regular checks of stored grain.

MANITOBA claims to be the only province which provides some compensation for farmers who have stock killed by unidentified hunters. Details may be obtained from the R.C.M.P.

LAST year in Alberta 7,761 hogs of the 234,909 government inspected were rejected for disease; more than 20% of them for mange.

FARM machinery investment in Saskatchewan totals half a BILLION dollars, and cost of repairs to such equipment is estimated at around \$10 million a year.



"Well I see that you and your automatic lawn mower are hard at work."

HEAT, age and humidity are the big enemies of egg producers, and thousands of dollars a year are lost to them through improper handling.

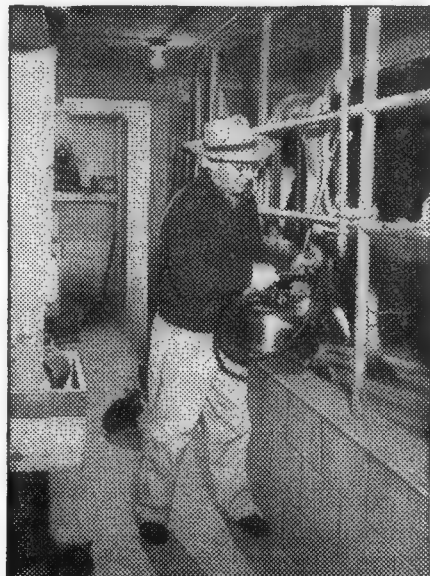
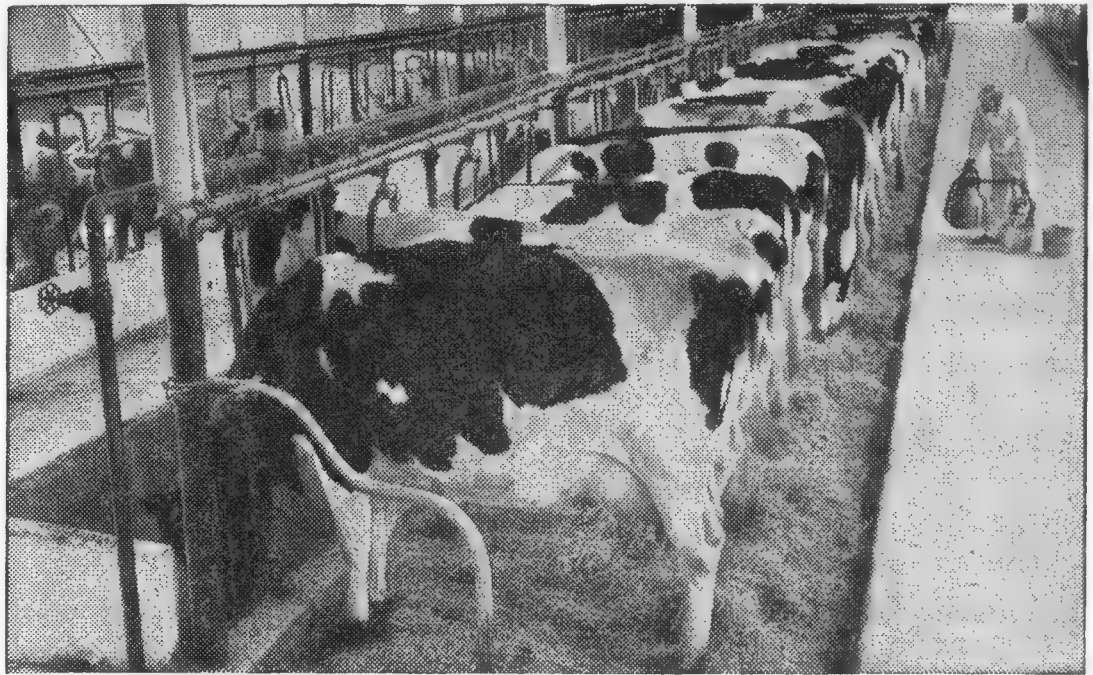
THOUSANDS of pounds of valuable plant nutrients are lost each year from our soil through poor cropping systems and bad cultivation practices.

DAIRY cattle in this country are of many nationalities. Ayrshires from Scotland, Brown Swiss from Switzerland, Guernseys from the Islands of Guernsey and Alderney, Holsteins from Holland and the Jerseys from the Isle of Jersey.

THIRTY-FIVE milk drivers have attended a course in handling bulk tank milk pick-up at the University of Manitoba.

BEEF, by far the most important of Britain's meat supplies, amounts to some 1,250,000 tons a year, of which two-thirds is home produced. Most of the remainder is imported from Australia and Argentina.

A DAIRY expert, who claims to have studied the matter, states that a happy, contented cow smiles by cocking her ears forward and brightening her eyes.



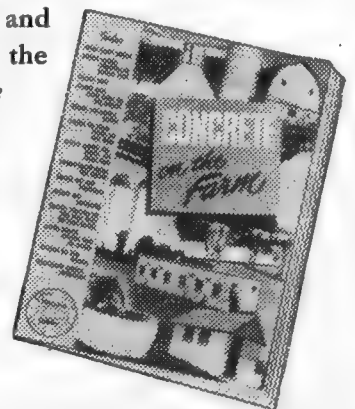
MODERN DAIRY METHODS demand Concrete MADE with CANADA CEMENT

Whatever your method—stables with stalls, or loose housing with milking parlours—concrete, made with Canada Cement, gives you maximum savings and sanitation with minimum labour and costs. Concrete construction is easy to keep clean and is hygienic; it is fireproof, requires practically no maintenance, and it won't rot or decay.

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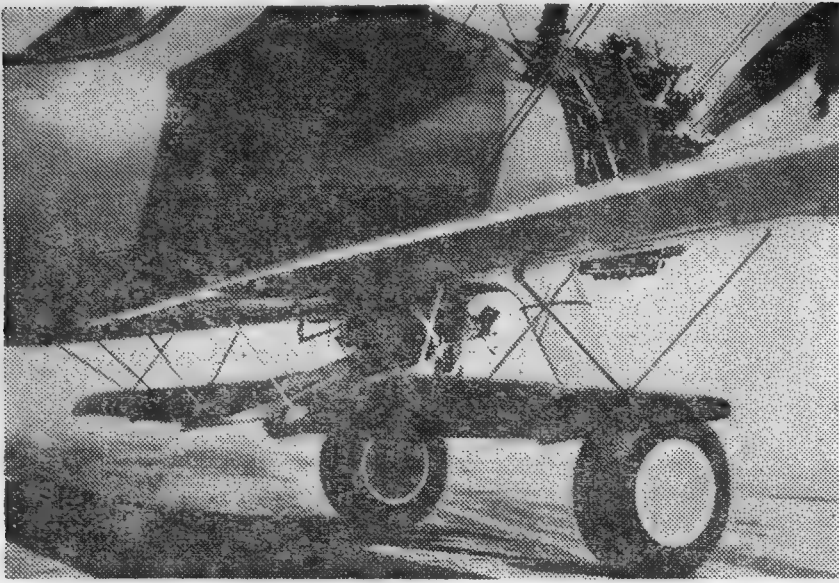
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There are many different marks and makes of aircraft used in agricultural flying today. The Canada Department of Agriculture designed the first dust hopper for use with a plane developed, such as the Swathmaster (above)

Higher than kites

Western farmers may be elated about mechanized farming, but they're really up in the air over flying.

TO say that all Canadian farmers are "higher than a kite" would not only be unfair but untrue. However, it would be safe to say that an increasing number of Canadian farmers are higher than a kite every day, as the trend to agricultural flying takes an upswing.

Remember way back when . . . we thought the fella down the road was a little tetchy by the sun when he said, " . . . we'll see the day when the gasoline

wagon replaces the team of big greys." Well, there are a few today who feel that some day even the truck may be replaced by the airplane. Judging by the way Canadian farmers have been taking to the air in the post war years, they could be right. Certainly there are some jobs being done on the farm today by aircraft that couldn't be done by truck. For that matter, the jobs might not be possible at all by any means other than by aircraft.

Prior to World War II Canada led the world in aerial cargo transportation with bush pilots logging millions of miles across the trackless expanse of the North. Yet the average prairie farmer had his roots too deeply in the soil to pull them out easily, and the evolution of agricultural flying was slow and unspectacular.

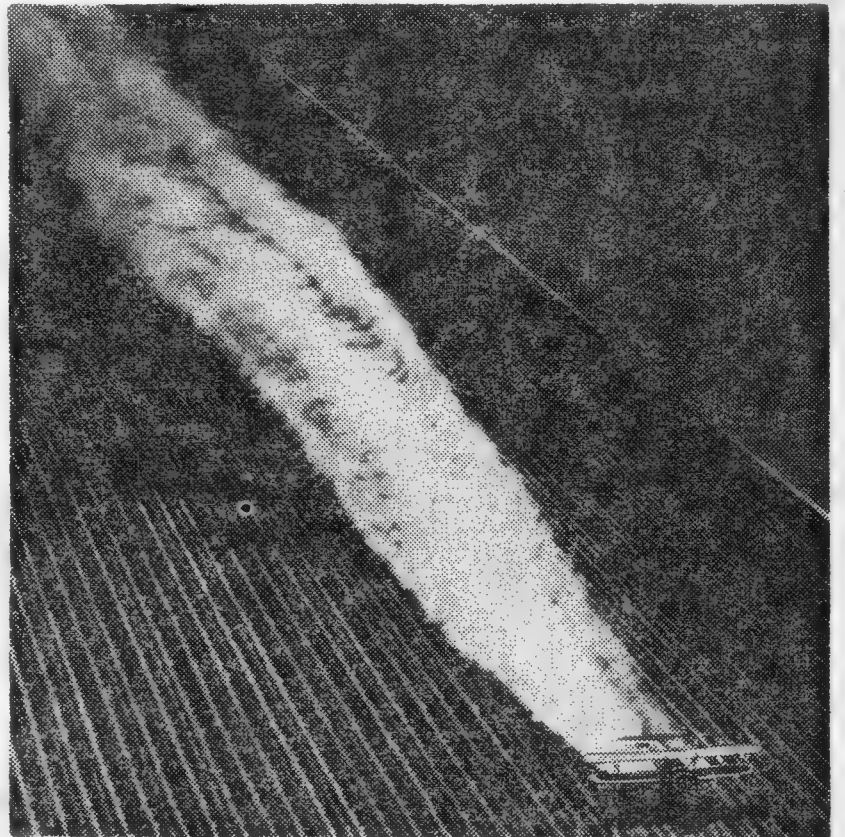
It's not that no one thought of the possibilities in the early days of flying. Actually the first flight for agricultural purposes was made about 39 years ago at Lake Timiskaming, Ont.,

the same year that the first plane flew from Halifax to Vancouver. Yet it just didn't catch on.

Nevertheless, some progress was made in the early days, with the first dust hopper for aerial use being designed by the Federal Department of Agriculture in 1924 and the following year the first dusting for the control of grain rust was done in the vicinity of the Pas, Norway House, and the High River District. At that time, all agri-

town to replace broken implement parts.

The biggest boost to agricultural flying in Canada came almost as a by-product of World War II when thousands of young pilots came home from overseas to shed their wartime uniforms but not their wings. War surplus aircraft and parts were readily available at moderate cost and this new generation of farmers with their interests, training and progressive thinking helped introduce the

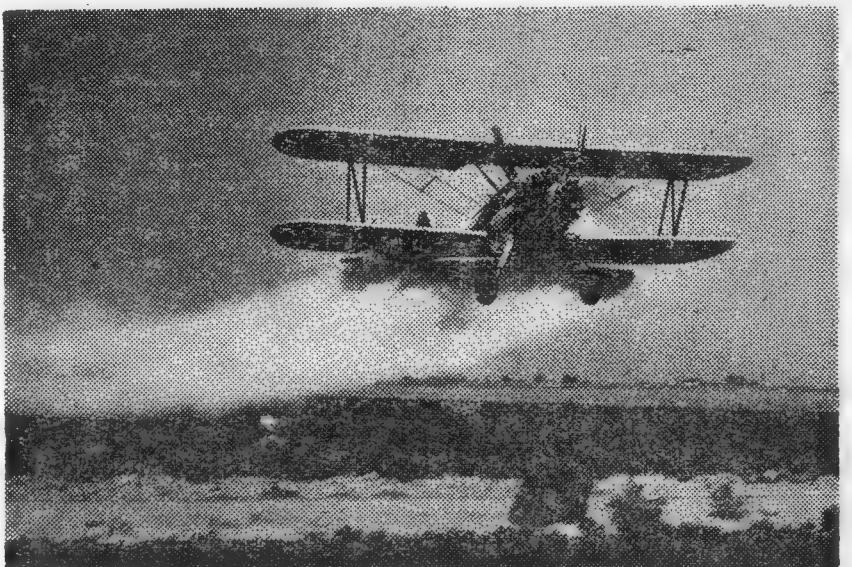


Some 400,000 acres of grain and specialized crops such as this were sprayed and dusted from the air in 1957 . . . and the idea of using aircraft for this job is just gaining momentum. The prairie provinces with their great distances, vast acreages, short seasons and convenient landing spots, make the use of aircraft in agriculture a natural development.

cultural aerial spraying was carried out by military aircraft.

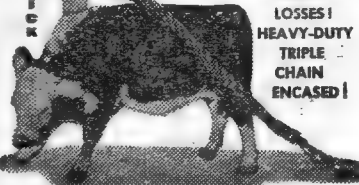
How times have changed! Today some twenty-five or more makes and marks of specialized planes are being manned by farmers from coast to coast, and doing everything from chasing ducks from grain fields to making quick emergency hops into

revolution in mechanized and scientific agriculture. Agricultural flying has now snowballed to the point where in 1957 over 200 aircraft logged a total of 15,435 hours . . . and the figure continues to climb. The Department of Transport, realizing the potentialities, gave the mushrooming business a shot in the



Even the fully qualified pilot should take a few practice lessons on low flying before starting to dust or spray for himself or his neighbors. Low flying requires special attention over longer periods of time, and pilots with experience in wartime flying must switch their thinking to the use of aircraft that rely more on maneuverability than they do on great power.

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CATTLE OILER! STOPS
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arm by changing its regulations to give flying farmers wider scope in their operations.

Mainly the airplane has been used so far for spraying and dusting, but the story goes much further — much further! A unique mission saw planes flying low over flax, vineyards and other special crops, raising the dawn temperatures so that frost would not damage the crops.

From the air, strayed and injured cattle were spotted and other cattle counted and rounded up. Fences, windmills and other facilities were checked and repaired if needed, and salt blocks dropped for grazing livestock.

Other purposes included hunting coyotes, foxes and other predatory game, timber cruising, surveying farm land before purchasing, watching for fires, and taking photographs. Many farmers now use the airplane in place of the light car or small truck. They can transport workers to remote farm areas, and even supply them with meals by

air. They can fly to meetings of farm organizations that previously they didn't have time to attend. And they can go hunting, fishing, visiting or sight-seeing.

Veterinarians use aircraft in some areas, particularly in the winter when roads are blocked. Some farm machinery salesmen make the rounds by air. Even clergymen use this method to cover quickly rural parishes and circuits.

These are what might be called some of the more exotic uses of aircraft in agriculture, but what is the unusual today may become the normal tomorrow. Actually, the bulk of the farm flying chores on the prairies have been associated with weed and insect control... an

operation in which the flying machine particularly excels. In the Prairie provinces alone in 1957, almost 400,000 acres of grain were sprayed or dusted for the control of weeds, buck brush and insects.

The splendid report on flying in that year, prepared by Mr. L. E. Philpotts of the Federal Department of Agriculture, shows that weed control by aircraft involved some 28,500 acres in Manitoba, 282,500 acres in Saskatchewan, and about 61,500 acres in Alberta. 2,4-D in fuel oil or water (at about two qts. per acre) was the chemical used on acreages of wheat, flax, oats, barley and rye to check stockweed, mustard, thistle, etc. Some spraying was done in Manitoba to check wild millet in

sugar beets and to control the broad-leaved weeds in potatoes. The costs ran at between \$1.00 and \$1.10 per acre for the applications.

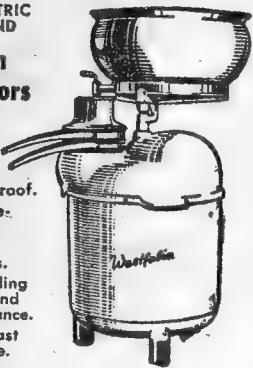
Most of the work done on insects with the use of aircraft was to battle the ever present grasshopper and potato bug. The costs here were in the neighborhood of \$1.25 per acre in Saskatchewan and Alberta, although in some parts of Alberta the costs climbed as high as \$2.90 an acre. These costs are all for application and do not include the cost of chemicals; they also only apply to operations in the three prairie provinces. While this was in progress several million acres elsewhere in Canada were being sprayed by the forestry people.

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sure results.

**performance-
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To make sure it does what it's
designed to do, "Miracle"
Chick Starter is checked under
actual farm conditions.

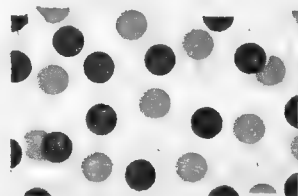


When you spend good money for "Miracle" Chick Starter, you're not just buying feed. You're actually buying *future profits*.

"Miracle" Chick Starter gives your chicks the carefully balanced nutrients they need to thrive and develop to their full extent. Getting the proper start determines their future egg-laying ability, and your future profits. That's why it's so important to feed them "Miracle" Chick Starter.

Just two pounds is all it takes to get each chick over that all-important first six weeks. When so much depends on it, isn't it just good business to feed your chicks "Miracle" Chick Starter... and start making future profits right now?

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Picked Up In Passing—

by INA BRUNS

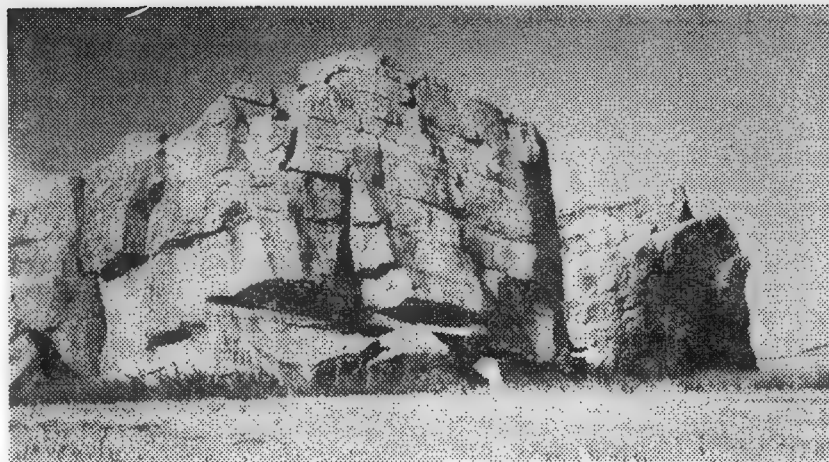
NCESSITY, we are told, is the mother of invention, but looking back one can find countless discoveries made through sheer accident.

Summerfallow had an accidental birth! Angus Mackay was seeding his crop near Indian Head, Saskatchewan, in the spring of 1885 when a call for all horses was made to support the fighting at Prince Albert and Battleford where the Metis had rebelled against the shortages of buffalo brought on by white settlers.

With his horses off to war and part of his land unseeded,

Mr. Mackay hitched up a weary old team unfit for the fray and plowed the neglected acreage. Too late to be seeded that year, he harrowed it during the summer to keep weeds from seeding.

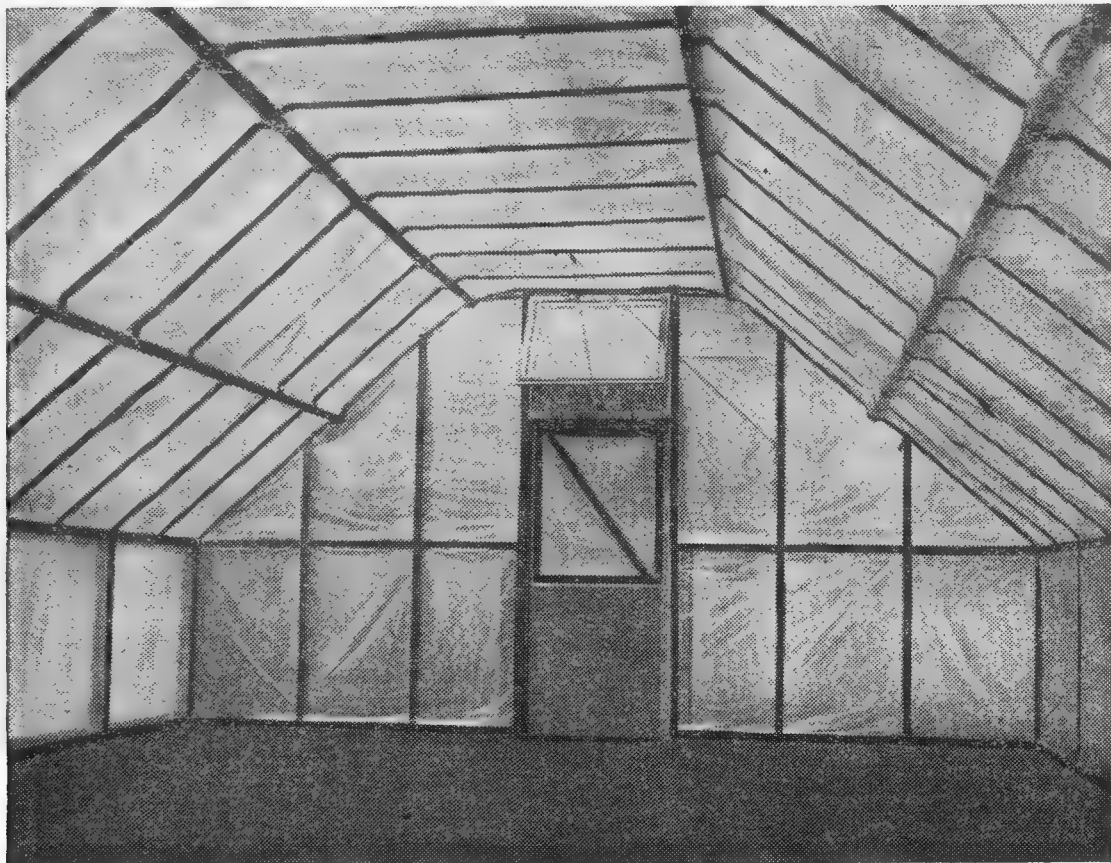
The following spring when trouble with the Metis had been put down, the land was seeded. Drouth hit the prairies that summer—a drouth so serious farmers were cropless—all, that is except Angus Mackay! People came from miles to marvel at the 35 bushels of wheat he produced on each acre of that first field of summerfallow.



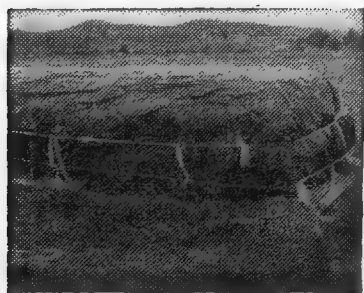
A STUDY of points of interest within a day's drive will reveal a surprising number of exciting possibilities. Not the least of these for central Albertans could be The Big Rock, the largest erratic in the world.

Sitting in a field of grain just west of the town of Okotoks, this small mountain of rock brings geologists from around

the world, yet I've talked to people who live only a few miles away who never heard of it. Those who know about erratics say this granddaddy of them all tobogganed into position in the Pleistocene Age; an eerie reminder to visitors of our past history that was so dramatic it staggers the imagination.



Build a greenhouse for just one-tenth the usual cost with polythene film



Low-cost silos, too! Black polythene film is ideal as a cover for trench silos and a cap for conventional silos. It retains moisture, excludes oxygen. Write C-I-L, P.O. Box 10, Montreal, for plans of a 10' x 7' greenhouse.

Yes, one-tenth the cost of a glass house. Here's why: a greenhouse of polythene film needs no foundation or sidewalls... requires only a light, cheap framework... can be built with unskilled labor. And the polythene film—usually replaced yearly—costs only 1¢ a square foot. Tobacco, vegetable and flower growers have discovered that polythene greenhouses have operating advantages too—better moisture retention by day, less heat loss at night.

Polythene film has a multitude of uses on any farm: as a liner to stop seepage from ponds, as temporary storm windows on out-buildings, as tarpaulins for machinery and materials stored out of doors. Black polythene film is used for mulching row crops.

Polythene film is available in rolls of 500 and 1,500 sq. ft. in various widths and gauges, from hardware and building supply dealers.

C-I-L Polythene

Canadian Industries Limited supplies polythene resin to film manufacturers.



THE 17% freight increase that added weight to the farmer's load of troubles for the twelfth time in the past 10 years, has the man of the soil going in circles trying to find some hole in the ever towering wall of production costs. We've been wondering if the central Alberta farmer with an ever-increasing herd of burros and mules, plans to counter attack with a transportation system of his own!

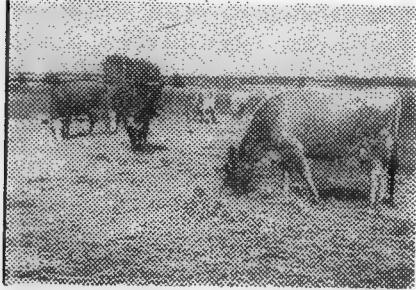


"GOOD fences make good neighbours," so said poet Robert Frost, and every farmer will agree with this observation! Murder has been committed over fence feuds. We have noted that the better the farmer, the more irate he becomes when leaking fences allow livestock to plunder his crops.

But good fences cost money

— around \$450 per mile in this age of inflation! It costs the builder even more in the long run if he unwisely uses untreated posts!

At Ottawa, where more heat and moisture tends to shorten the lifetime of posts as compared to the expectancy of those on the prairies, spruce and balsam had an average life of four years when untreated, but with only the butt treatment with creosote their life span was increased by 11 years! At Indian Head, Saskatchewan, tests showed that aspen poplar posts given the hot-and-cold open-tank butt treatment with a zinc chloride solution had an average service life of over 23 years!



DAIRY heifers are said to be the most neglected of farm animals. Inadequate feeding during the critical stage before calf reaches maturity, stunts many prospective milkers and keeps the average butterfat production of cows in this country at something like 200 lbs. a year when experts say it could easily be 400 to 600 lbs.!

Dairymen also point out that a good cow can be ruined if she is not given a long rest at the end of the first lactation. This is the most important point in her life, and the average milker should have 45 days' rest while the heavy milker needs 60 days. If the dry period should be only a few days long it will cut production as much as a quarter! She should not be bred back for from 60 to 90 days after calving if maximum yield is to be realized.



SHEEP fanciers are happy to know that the Canada Department of Agriculture has appointed a committee to take a look at the declining sheep situation. It will be the responsibility of this committee to find ways and means of stimulating interest.

"ONE reason I look forward to retiring from the farm," a woman confided to us recently, "is because for the past



quarter century my husband has been keeping records of the cow's personal lives on the kitchen calendars!"

Solution: Get him one of those over-sized calendars one sees in hotels and hang it in his office or in the barn. Nail a string to the wall near by, and to this string tie a pencil. (If the pencil isn't nailed down, he'll lose it and return to the kitchen calendar.)

Gestation charts can be hung beside this calendar to assist him in his calculations, and every farmer in the land should have a chart showing the normal temperatures of all farm animals. He will, of course, want a clinical thermometer as

the first question a veterinarian about a patient is for accurate asks when being consulted measuring of body heat.

OR GIRL
ANY BOY / CAN DO A MAN'S WORK
WITH A

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All the family will enjoy operating your Roto-Hoe—it's safe and easy. Pioneered in the thirties, Roto-Hoe new models for '59 eliminate heavy digging and tiresome hoeing—once over does the job. No plows, discs, or harrows to buy. Revolving teeth break up soil, destroy weeds between rows.

TRIM LAWNS... CUT HIGH GRASS
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Shown here is the popular 3 h.p. model. See your dealer or write for free literature illustrating all models and other attachments.

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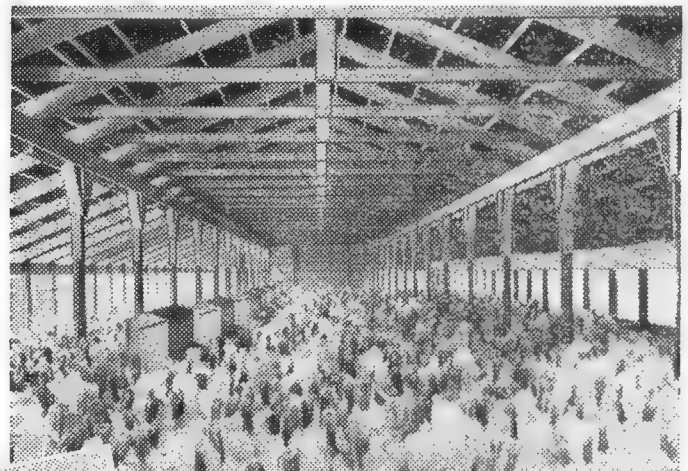
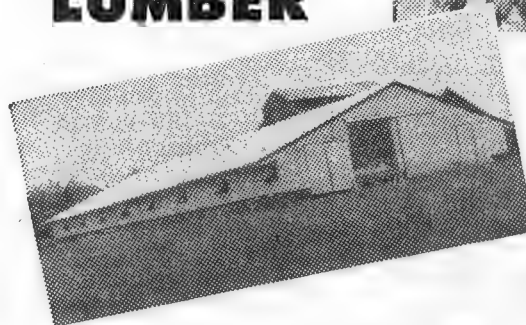
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Whether it's a well-planned, airy turkey house like the one shown...a barn, utility shed or any other kind of farm building...you'll save yourself money, time and maintenance worries with modern pole type construction and durable "Triple C" pressure treated

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Green haven in a dust bowl

"ONLY God can make a tree," may be the literal truth, but on our wind swept plains He needs a little help from man.

Trees will grow almost anywhere and there seems little excuse for established prairie farms not having windbreaks and a sheltering grove of trees around their buildings.

It is a familiar experience to the traveller across the treeless

areas of Saskatchewan and Alberta to drive for miles without sighting a shrub or tree to come suddenly upon a farm hidden in a virtual small forest.

Right across the road perhaps is a farmstead exposed to all the furies of nature; its buildings dust covered, the paint almost blown off them, and unprotected by a solitary leaf.

This surprise is experienced on



A shelter-belt such as this is of incalculable value on the prairie farm.

a grand scale by the stranger driving southwest of Saskatoon, Saskatchewan, when he emerges suddenly from wind-driven clouds of prairie soil into the green shelter of tree belts near Conquest.

It is a feeling of joy and relief, and through eight townships of typical, naturally treeless Saskatchewan wheatland he is in the lee of over 700 square miles of field shelter belts, comprised of about 6,000,000 trees all planted within the last 23 years.

The drouth and dust storms of the early '30's warned that soil protection was necessary in the grain growing areas; especially on the lighter soils so susceptible to wind erosion. Tree planting to prevent erosion and to improve living conditions on Prairie farms had been preached by Canadian Forestry Association men since the early '20's. The story had been taken, and continues to be taken, to almost every farm family in the three prairie provinces through the C.P.R. supplied Tree Planting Car, staffed by Association lecturers.

In 1935 the P.F.R.A. undertook a demonstration planting on 63 square miles, centering on Conquest, in co-operation with the Dominion Tree Planting Division at Indian Head, Sask. The experiment showed such promise that the area has been continually expanded until now nearly eight townships are included in the demonstration.

Driving west on highway No.

15, after crossing the South Saskatchewan River west of Outlook and again reaching prairie level, one is confronted with row after row of trees. Growing at about 40-rod intervals the rows stretch for miles and miles across farm after farm. Additional groves of trees are concentrated around attractive farm buildings. The trees have grown to such height that some views to the northwest appear to be across solid tree cover.

Since the Conquest tree planting project was a demonstration, financial assistance was offered to farm owners. This help is still available in this area, or in the two other projects at Aneroid, Sask., and at Lyleton, Manitoba, where additional plantings have been developed. The plan works something like this:

An owner applies to the Forest Nursery Station at Indian Head for trees to be planted in the following spring. A field officer will visit his farm and assist in the layout of his field-shelters, estimate the number of trees and the species required. When an agreement has been signed, the owner receives trees the following May or June, free of charge, from the Forest Nursery Station. Trees are planted in single rows for the fieldshelters. Financial assistance at the rate of \$20.00 per mile, for planting and maintenance, is paid to the owner each year for five years. He will also continue to receive advice and as-



A residence at the Dominion Government Tree Nursery, Indian Head, Sask.



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COMPOST ACCELERATOR
**URNS GARDEN
RUBBISH INTO
RICH MANURE
IN
5 to 6 WEEKS**

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FERTOSAN—A BOON TO GARDENERS

Have you heard of Fertosan Compost Accelerator... the wonderful bacteria that will decompose all garden rubbish, from weeds to corn stalks in only six weeks?

In the astonishingly short time of only seven years, sales of Fertosan have soared from 4,000 packets sold in 1951 to over 60,000 packets per year in 1956, '57 and '58.

The greater proportion of these increased sales are due mostly to one satisfied gardener telling his/her friends of the success they have had when using Fertosan.

Fertosan is a harmless dormant bacteria which is activated by adding a small quantity of warm water to the bacteria in any open-mouth jar then, using this mixture as a STOCK SOLUTION, you add one tablespoon of it to one gallon water and sprinkle the surface of each 8-inch layer of garden rubbish in your compost heap as the heap is being made.

A one-ton size packet will treat a compost heap 4 ft. x 4 ft. x 5 ft. high, built like a pyramid. When finished you cover the whole heap with 2 inches of earth or old sacking and forget about it (except to see that it is kept moist) for six weeks, when it will all be decomposed and ready to spread on your garden or greenhouse benches.

The bacteria do ALL the work after the heap is made and a one-ton size packet costs much less than ONE DOLLAR.

Fertosan is packaged in sizes to treat 1, 4, 20, 100 and 1,000 tons.

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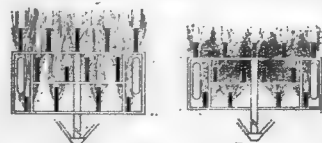
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**The Sub-Tiller
Plow**

with ALL the wanted features

MODELS FOR EVERY FARM AND TRACTOR 6' TO 35'

There's a size and model to suit every customer's exact needs.



Glencoe Plow (Fig. 1) in contrast to action in the ordinary plow (Fig. 2). "BATTLESHIP" FRAME. Glencoe high tensile steel frame members give tremendous strength. Tongues are one-piece H-beams, running clear through the machine, solidly anchored and braced against twisting. Their underframe mounting is an exclusive GLENCOE feature.

FAST CLEARANCE OF OBSTACLES. Special spring and shank arrangement gives fast, trouble-free clearance of obstacles, and the longest spring in the industry allows shanks to "ride up" over rocks as high as 14". Glencoe's "Spring within a Spring" means more positive penetration - greater safety - it's standard equipment only with Glencoe.

Ask your nearest distributor for free literature and name of nearest dealer.

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EQUIPMENT LTD.**
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EQUIPMENT LTD.,**
Box 1184, Regina, Sask.

**NORTHWEST FARM
EQUIPMENT LTD.,**
Box 351, Calgary, Alta



Not much wind problem around the buildings here.

sistance from a field officer, who helps with the replacement of trees which may be lost in dry seasons, or in filling small gaps where losses may have occurred from local hazards of stubble fires, livestock, insects, drought or other conditions.

The actual tree planting job is now greatly eased and speeded by the use of tree planting machines. Drawn behind a light farm tractor, these machines with a two-man planting crew and a tractor driver, proceed across the field at about 1 mile per hour, in ground which has been prepared by summer-fallowing. Spaced about 18 inches apart, the trees and shrubs are placed in the row to the number of 3,500 plants to the lineal mile, with a minimum of manual labour.

The contrast between machine planting and the original methods of hand planting with a shovel, or by using a tractor and plow to open a furrow, is most striking. Peter Kennedy, one of the early exponents of tree planting in this area, began his shelters in 1920, before the government project originated. With his son, Hugh, he planted over 150,000 trees without the use of a tree planter. Their results influenced the selection of the Conquest area for extension of the fieldshelter plantings to surrounding farm areas.

Is the project considered valuable by the farmers on whose lands the tree belts have been established? Mr. Hugh Kennedy, son of the owner who began this fieldshelter planting in the Conquest area, says that he would not live on a farm which

did not have fieldshelters and farmstead windbreaks, to make the living pleasant, profitable and attractive. In this, he is in agreement with many other tree planters. He also states that the first swath in the lee of the trees, outside the 1-rod cultivated strip, shows a slight reduction in grain yield. However, the next 6 rods yield much more grain or forage than any other portion of the field. The careful, conservative studies of the Department of Agriculture show a net increase of nearly a bushel of wheat per acre over the entire area, notwithstanding the fact that part of the land is occupied by field shelterbelts and the cultivated strips on each side of them.

Another indication that this practice is "catching on" is the recent action by the Saskatchewan Department of Agriculture in developing a somewhat similar subsidized fieldshelter system for any group of six or more farmers who will organize into an association for the purpose.

The direction and the spacing of fieldshelters; the species of trees required for different areas; the preparation of the soil, method of planting and maintenance, in establishing shelterbelts are of great importance. Space here does not permit detailed information on the proper methods. Any such information desired may be obtained from the Tree Planting Division, Department of Agriculture, Indian Head, Saskatchewan; from the Saskatchewan Department of Agriculture, or from the Canadian Forestry Association, 20 Amherst St., Winnipeg, Manitoba.

Or watch for the announcement of the C.F.A. Tree Planting Car's appearance in your community this summer.

All in all it would seem that prairie dwellers are each year becoming increasingly tree conscious. Future generations will undoubtedly view a much different landscape over the prairies than we have. They may even find it hard to credit the fantastic stories of "old-timers" about the great dust clouds, the high winds and the disappearance of soil and vegetation. Let us plant trees and hope so. Like other hardships of the '30's they are not an experience to wish others to live through.

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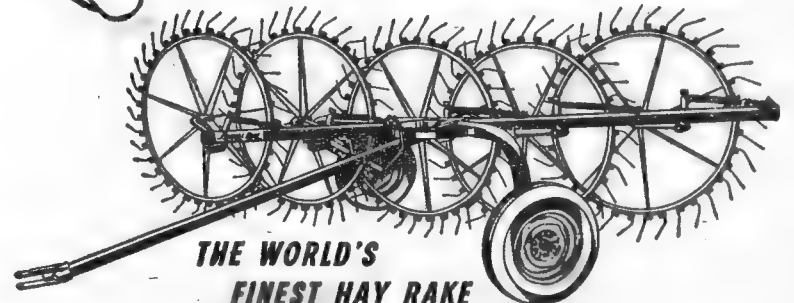
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WHY YOU GET *Gentle* RAKING



To give the Morrill Rake its best performance, desired durability, and operating economy, it comes equipped with the best raking teeth that modern inventive ability and engineering can provide. The Morrill Rake teeth employ a novel vibration dampening effect which assures maximum life and superior raking action. These teeth are protected by United States Patent No. 2,722,799 and West Coast Sales and Service Company and their authorized sales outlets are their only source of supply.

AWARD of MERIT — The Morrill Rake was the first farm equipment to be recognized and granted the Machine of the Month Award by WESTERN FARM EQUIPMENT MAGAZINE

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A new and very effective remedy for diarrhea and scours in calves, colts and young pigs. Contains dihydrostreptomycin 200 mgms. per ounce, kaolin, potassium chloride and pectin with para-hydroxy benzoate as preservative.

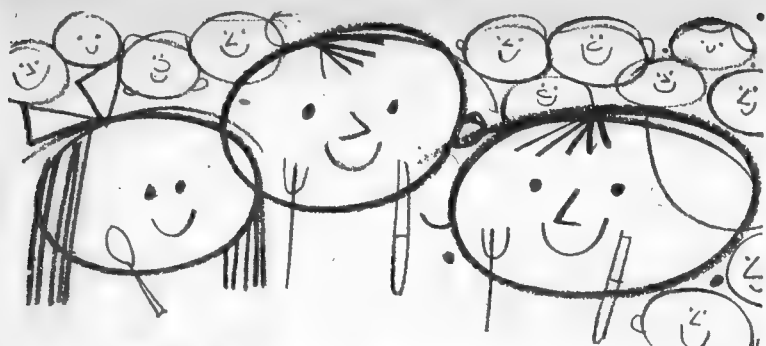
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1246 new faces at the dinner table every day...

Will they consume
their share of dairy foods?

Every day Canada's population increases by about 1,246 people—new immigrants and new babies. If every one of these new faces at the dinner table consumed dairy foods at the present per capita rate, there'd be a market for an additional 1,300,000 lbs. of milk daily!... more than 474,000,000 lbs. per year.

But, of course, they don't. Many of the new immigrants come from countries where milk and dairy foods are not a common staple of their daily diet. To be sure, new babies have very little to say about their diet, but they are born into relatively new households where regular consumption of dairy foods may not be so firmly established.

How do we capture our share of this additional market; and how do we maintain and increase consumption among regular users of dairy foods? By a continuing advertising and merchandising program to inform and educate the people in this vast potential new market; and by constantly reminding present customers of the importance of dairy foods in their daily diet.

SUPPORT THE JUNE SET-ASIDE

The June Set-Aside pays for this program. Each year six month-long dairy food promotions blanket the country with a heavy schedule of advertising in 91 daily newspapers, 261 weekly newspapers, 6 national magazines and French language radio.

The Dairy Foods Service Bureau backs up these promotions with a constant barrage of food stories, tested recipes, food photographs and scripts to newspapers, magazines, radio and TV stations all over Canada.

In June, over 4,000 food stores from coast to coast participate in the *June Is Dairy Month* promotion with special displays and colorful banners to reach housewives when they're buying foods for the family.

The June Set-Aside pays for the job of educating the Canadian public to the regular use of dairy foods—at a cost of little more to you than 25¢ per cow. A small price to pay for a promotional program so vast and all-inclusive. A small price indeed for the splendid job it does of maintaining and increasing public acceptance of dairy foods. Support the June Set-Aside. It helps support you.



DAIRY FARMERS OF CANADA

409 Huron Street, Toronto, Ontario



13-month-old bull sells for fortune.

BREEDERS all over the world make a brave show of maintaining the Aberdeen-Angus strain, but eventually they have to go back to the source of origin to import new blood.

Back to the burns and braes of Bonny Scotland.

And they go back with heavy

purses of gold, or tremendous Letters of Credit, for the stock they are after comes high.

To secure the bull pictured here, and described by many experts as the best Aberdeen-Angus bull they had ever seen, you would have had to pay in excess of \$72,187.00 (£26,250). Perhaps considerably in excess

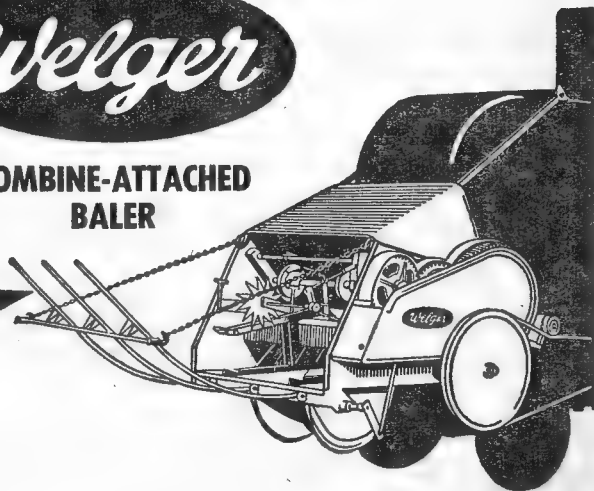
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COMBINE-ATTACHED
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Look at
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BIG
FEATURES



- Bales straw, chaff, light grain and weeds in one operation while combining. Saves this valuable winter feed, usually spread in the field, for your livestock.
 - Makes square bales — adjustable from 15 to 30 lbs. No reduction in capacity of combine.
 - 50% twine saving . . . uses binder twine. Fool-proof Welger knottor.
 - Ensures fresh, clean straw — not muddy or bleached from lying on the ground.
 - Soon pays for itself through savings in fuel, time, labour and increased feed value of straw. . . . **EVEN IF YOU ALREADY OWN A HAY BALER.**
- Welger balers fit: Massey-Harris 26, 27, 80, 80SP, 82, 90, 90SP, 92; International 127; John Deere 55; Case 120; Cockshutt Co-op 112, 132, 427, 428, 137; Gleaner.

Hundreds of these units are now giving completely satisfactory service to farmer owners in Western Canada. Write your distributor for full details.

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since this was the price at which two of the three spirited bidders reluctantly dropped out. Not many of us could sleep well at nights with an animal of this value in the barn.

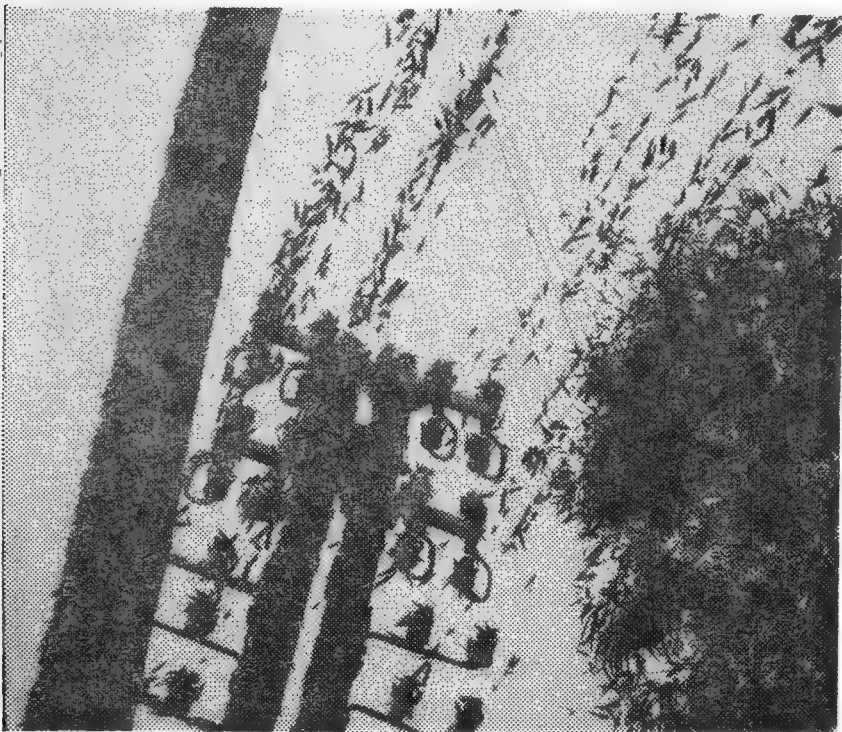
The bull is 13 months old, Elevate of Eastfield, and he was obtained at the recent Aberdeen-Angus show and sale at Perth, Scotland, by Robert A. Graham for his herd at Shadwell, Virginia. The sum paid was a new record price for an Aberdeen-Angus bull, and is believed a record British price for a bull of any breed.

Elevate of Eastfield is from the Brewis family herd at Kelso, Scotland. He was sired by

Newhouse Edwin Erison, out of Evening Bell of Wedderlie.

During the sale, American breeders paid the highest total buying 12 bulls for £43,417, including the price for the above Supreme Champion. Argentine buyers bought 16 bulls, Canada one, New Zealand one, Jamaica one and South Africa one. The 32 bulls for export were sold for a total of £57,876, or an average of just about \$5,000.00 each.

Pictured at the left is Mr. Lester Leachman who purchased the bull for Mr. Graham, and at the right is Mr. T. Brewis, son of the bull's breeder.



High-flying LOCUSTS, as thick as the leaves on trees, cluster on every twig, telephone pole and wire, when the big migrations are under way in the MIDDLE EAST. World Locust Control Headquarters in LONDON, ENGLAND, receives a constant stream of information on the whereabouts of the insect armies and where they may strike next.

More grasshoppers expected this year

THE Saskatchewan forecast map indicates farmers will have a real battle on their hands this year, in combating grasshoppers. Compared to 1958, the map shows a 66 per cent increase in "moderate" infestations, a four-fold increase in "severe infestations", while four small areas are in the "very severe" category, the first such areas since 1950.

The forecast area is roughly triangular in shape, extending from the extreme southeast corner of the province northwest to a point north of Saskatoon, and then southwest to the Alberta border. The extreme southwest corner of Saskatchewan should be free of outbreaks. The forecast area takes in about 140 of Saskatchewan's 300 rural municipalities compared to 116 in 1958. However, with favourable conditions for hatching in the spring, the severity of the outbreaks may greatly exceed 1958.

In 1958 over a million and a half acres were sprayed to control grasshoppers. In anticipation of the 1959 campaign the Saskatchewan Department of Agriculture has already made arrangements for the preparation of chemicals which will be supplied to farmers through the municipalities at cost price.

A major weakness in the program of grasshopper control is the failure of people to take steps, literally, to inform themselves about their own grasshopper problem, says L. G. Putnam, entomologist with the Canada Department of Agriculture Research Laboratory in Saskatoon.

"Control of grasshoppers with poisons is now simple, cheap, and effective, but people still do not take steps to inform themselves of their own problems," he states. "Despite the powerful weapons of agricultural chemi-

als, many people are completely unaware that their fields harbor grasshoppers.

"How is this possible?" he asks. "It is possible, apparently, because many people have never realized that the way to find grasshoppers, as soon as they should be found, is to get out and inspect the whole area with which they are concerned, on foot. In fact, early in the season, inspection from even lower altitudes may be needed, at a standstill.

"There is simply no other way

to find, before damage takes place, whether numerous grasshoppers are present or not, and if present, exactly where they are."

Mr. Putnam emphasizes that this kind of observation is vital to the gathering of proper information for grasshopper control measures.

He further stresses the value of careful observation in grasshopper control in that failure to observe may lead to the error of spraying areas not infested, while missing areas that are.



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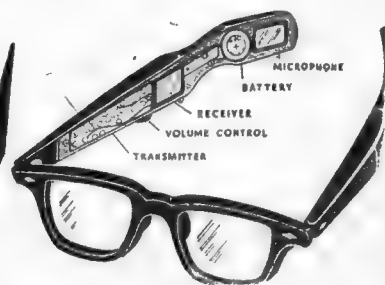
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Don't be embarrassed by loose false teeth slipping, dropping or wobbling when you eat, talk or laugh. Just sprinkle a little FASTEETH on your plates. This pleasant powder gives a remarkable sense of added comfort and security by holding plates more firmly. No gummy, gooey, pasty taste or feeling. It's alkaline (non-acid). Get FASTEETH at drug counters everywhere.

STOP COSTLY LOSSES
Let Cattle Treat Themselves



Choice of Rubbing Elements
GIANT ROPE STEEL GUARD
Price: Start at \$23.95
Residual value, purchased with insecticide

ALWAYS ON GUARD... Protecting Livestock against Lice, Horn Flies... Insecticides are rubbed deep down into hair and hide automatically, as cattle treat themselves all over. New Auto-Delivery pump controls flow of oil. Pump is adjustable and guaranteed leak-proof. Easy to install, attaches to post anywhere. The 5-gal. tank holds enough oil to last for weeks.

Recommended
Insecticide Concentrate
HESSKILL METHOLEX—A residual type fly spray concentrate containing Methoxychlor with Hesselol that is recommended to control Horn Flies and an aid in house control. For Oiler application, can of Metholex will take care of 50 to 100 cattle for several months because it's highly concentrated. Metholex may also be mixed with water for spray application. . . . Gallon \$10.70 postpaid.

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Erosion is a world-wide problem, and this photo from Macedonia (the Middle East) indicates that it is a serious one there and threatens whole valleys. It's effects are many — gullying of the land, uncontrolled torrents, floods, loss of fertility. Erosion in the Middle East is being studied by the Food and Agricultural Organization of the United Nations.

CANADA'S PIG CROP this fall is expected to be 40% larger than it was a year ago. This is expected to boost exports to the UNITED STATES.

Joints in **IRRIGATION PIPE-LINES** made by an **ENGLISH** firm are kept tight by the pressure of water — the ends of the couplings are simply pushed into sockets, and once the water is turned on, a spring and rubber insert ensures a tight seal.

CUBA, with a rapidly expanding **BROILER INDUSTRY** is facing a shortage of **CORN**. To date it has authorized duty-free imports of over a million bushels of U.S. shelled corn, but supplies are still short.

BUTTER PROBLEMS have even hit the farmers of **KENYA**. Production has climbed and prices to farmers have dropped. Appeals are being made to machinery and equipment dealers to try to keep their prices down so that Kenya farmers will not be any worse off.

CANADIAN HORSES have again been recruited for police duty in the **BRITISH WEST INDIES**. Two horses went to **BARBADOS**: about every third year **TRINIDAD** orders 12 or 15. Neither island breeds horses since all hay and grain must be imported and the cost would be prohibitive. The horses come from breeding stations in Ontario and Saskatchewan.

The **FARM POPULATION** of **JAPAN** continues to decline. Today the number of Japanese farm households is estimated at

6,000,000, a drop of over 133,000 since 1951.

A **BRITISH** farmer, David Winsloe, of **Sussex**, sits down at the end of each month's work and **RECORDS** the operation's problems and achievements on a tape recorder. Then he gets his staff together, plays the record back, and discusses it with them. By now he has a complete two-years' record of his farming operations.

In a trade agreement between **WEST GERMANY** AND **HUNGARY**, Hungary has agreed to buy hops, and field vegetable seeds valued at close to a quarter million dollars from Germany. West Germany in return will take -3.6 million worth of Hungarian **PULSES**, field and **HORTICULTURAL SEEDS**, **SEED CORN** AND **RICE**.

DAIRY FARMERS OF **INDIA** have established a co-operative to dry and process **WATER BUFFALO MILK**. It is the only plant of its kind in the world and serves 20,000 farmers in the 70 villages in the **Gujarat** area **NORTH OF BOMBAY**.

Every day during the flush season about 25,000 gallons of buffalo milk are brought in pails to the plant, which is turned into butter, cheese, casein, as well as pasteurized milk. Machinery for the plant was provided by the United Nations' Children's Fund.

ASPARAGUS SEED which produces all male plants has been isolated at a National Vegetable Research Station in **ENG-**

(Continued on page 27)

SHIPPING FEVER

**SHOCK
COLDS
EXPOSURE
SUDDEN ILLNESS**

Various diseases are involved in the 'Shipping Fever Complex' and preventive measures are uncertain. Your veterinarian, if called early, can control losses with antibiotics and other effective drugs. The next best step is prompt use of

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'The Cattleman's Standby'



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LONGEST: 10,000 FT.;

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tensile strength; 9,000 FT.

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EAST AFRICAN SISAL



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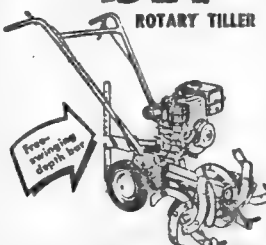
who can also serve you with
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Ariens new **JET** is the easiest handling, low-cost tiller made! S-L-O-W, steady tilling speed; 8" to 20" tillage width for easy seedbed preparation and cultivating. Briggs and Stratton 2 1/4 h.p. engine; "Lo-Tone" muffler; fingertip controls; free-swinging depth bar. For Just Easy Tilling... try the Ariens JET!

**MORE MODELS! MORE VERSATILITY!
MORE VALUE... IN THE ARIENS
TILLER LINE!**

Ariens **YARDSTER** — for home gardeners. 2-speed wheel drive; tilling, mowing, spraying... clears snow!
Ariens **MULTIMATIC** — for professional gardeners. 16" tiller with reversible handle for 2-speed, 2-direction use with front or rear-mounted implements.
Ariens **TRANS-A-MATIC** — for heavy duty tilling. Non-slip differential ends wheel slipage. 20" or 28" tillage.

See your **ROBIN** Dealer or write for information and literature.

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in less time—at less cost

with the big-capacity

McCORMICK No. 46 BALER

Capacity is the big thing in a baler—and the 46 "takes it in and puts it out" faster than any other baler in its class! Positive power flow, extra wide feed opening, *triple* wide-sweep packer fingers and freedom from stretching belts and chains are just a few of its advanced hay-making features. Low first cost, big daily tonnage, sure-fire tying, long runs

without downtime—that's the McCormick No. 46. Let your IH dealer prove to you that it's profitable to own a 46 for as little as 2 days baling a year.

For *big* hay acreage, or for custom work, the McCORMICK NO. 56 gives bigger, heavier "shipping bales" tied with twine or wire.

Here's what farmers like yourself are saying about the McCormick No. 46:

Ray Brisseau, Saskatoon, Sask.

"After baling for my neighbours, I was told my No. 46 had done the best job... that they had ever seen."

Harry F. Yates, R.R. No. 2, Callendar, Ont.

"I put up 7,000 bales last year and only missed 4."

Baczuk Farms, Milk River, Alta.

"No. 46 does a wonderful job—we are sure proud of it."

Andy Chontosh Jr., Taber, Alta.

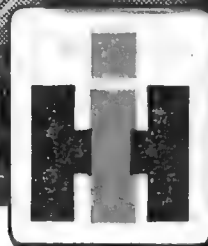
"Very pleased with our No. 46—especially its ability to 'take it in' and 'put it out'."

John Neil, Burdett, Alta.

"I have found my 46 baler entirely satisfactory. The capacity of this unit is everything claimed for it."



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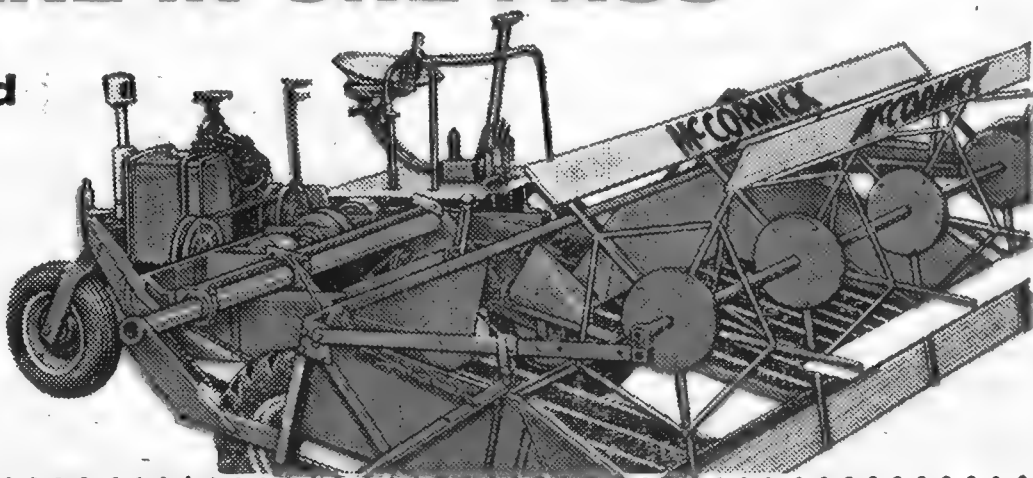
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with the McCORMICK No. 163 Self-Propelled WINDROWER

FOR HAYING—a hay platform for once-over, all-over hay-making—for the fastest, cleanest most palatable hay. A perfect combination with either your baler or forage harvester.

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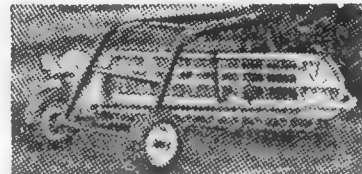


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The complete line of McCormick Mowers lets you choose a rugged, precision-engineered model that matches both your power and your mowing needs. Designed for fast, clean, trouble-free cutting under all conditions of crop and field.



There's a McCormick Rake that's built for your farm. Semi-mounted, trailing side-delivery and fast-hitch side-delivery types for high-speed performance and gentlest handling of your hay.



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Farm Tractors and Equipment • Motor Trucks • Crawler Tractors • Construction and Commercial Equipment

YOU TOO! CAN WIN \$500

\$100.00 Winner

In Our Last Contest

Many Other
CASH Prizes
Ranging From
\$150.00
to
\$25.00



*Mr. and Mrs. Louie Olson of
Galahad, Alberta.*

In a letter to the Farm and Ranch Review, Mr. Olson said:
"It certainly was a surprise to be one of the lucky winners
in your contest; namely, for a \$100.00. I say a good
thanks from the bottom of my heart. The money sure
came in handy."

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COSTS
YOU
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All you have to do to qualify is correctly answer the question at the bottom of this page, and mail it along with the \$1.00 payment and signature of a new subscriber living in Western Canada to the FARM AND RANCH REVIEW, Box 620, Calgary, Alta.

He in turn will receive in the mail a copy of the FARM AND RANCH REVIEW every month FOR THE NEXT TEN YEARS. THIS SPECIAL FARM RATE MAKES IT EASY TO GET ENTRIES.

All answers mailed to Box 620, Calgary, by the end of JUNE will be placed in a churn. Under the supervision of the Company's Auditors, the first correct answer drawn will receive the big cash prize of \$500.00. This will be followed by the drawing of 12 OTHER WINNERS.

Winners' names will be published in the FARM AND RANCH REVIEW and at the same time, the prize money will be promptly mailed.

REMEMBER You cannot qualify by sending in your own subscription. Your entry will be disqualified if you send in a "gift" subscription or sign the order form for the subscriber.

— ENTER OFTEN —

QUESTION: WHO IS THE AGRICULTURE MINISTER OF CANADA ?

MY ANSWER :

MY NAME AND ADDRESS :

Enclosed please find \$1.00 for a full TEN YEARS' subscription to THE FARM AND RANCH REVIEW, which I have sold to :—

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PLEASE INDICATE WHETHER : NEW or RENEWAL

Each new subscription or renewal entitles you to send another entry to the Contest. List extra entries on a separate sheet, but be sure to answer question.

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POOL PATRONAGE

Really Pays

Alberta Wheat Pool members save money by delivering their grain to their own Pool elevators.

Take the case of the farmer who delivered 4,000 bushels of wheat a year from 1948 to 1957. His patronage dividends have been:

In Cash \$ 410.00
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Total \$1,362.76

On a single carload of grain, savings have been:

1957-58
WHEAT—
2,000 bushels \$ 99.60
BARLEY—
2,250 bushels \$ 56.00

LAST TEN YEARS
WHEAT—
2,000 bushels \$681.38
BARLEY—
2,250 bushels \$383.40

As a farmer, you cannot afford to miss these savings.

Deliver all of your grain to your local Pool elevator.

ALBERTA WHEAT POOL

(Continued from page 24)

LAND. Seed production techniques are being worked out, involving isolation of the plants and/or screening them completely and introducing the insects without which pollination is impossible. Male asparagus plants give a bigger yield, live longer, have "neater habits" in not scattering unwanted seed, develop earlier and are more vigorous than female plants.

THE CUBAN GOVERNMENT is SUBSIDIZING CIGAR EXPORTS to help manufacturers pay recently increased wages. Credit certificates issued to export manufacturers and with a yearly maximum of \$336,000 can be applied toward payment of Cuban taxes in the year following their issue. **THE UNITED STATES** imports about 20 million cigars annually from Cuba, and is that country's second largest foreign market.

QUALITY controls on **APPLE EXPORTS** have been set up by **ITALY**. The required minimum diameter of apples is set at two-and-a-quarter inches.

GUERNSEY STATES (the governing body of the **CHANNEL ISLANDS**) has approved a \$962,000 scheme to provide 500,000 gallons of **FRESH WATER** a day from the sea. Growers will be using this water within two years for watering their glasshouses.

A slight surplus may even be shaping up in the market for **WALNUTS**. **UNITED STATES** producers put some 85,000 tons of walnuts on the market this last season, compared with only 66,600 tons last year. Meantime, in **CONTINENTAL EUROPE** production was also on the increase, in the overall picture, although the **FRENCH** crop was short.

Automatic Super-Duty Rolls Kracks Krimps
All-Purpose Roller Mills

THE PERFECT WAY TO PROCESS WHEAT, OATS, BARLEY, AND OTHER SMALL GRAIN. CANADA'S best, precision-built Grain Roller... Smart feeders everywhere are switching to Automatic Roller Mills to improve feeding results, stop feed waste and to get maximum gains from every bushel they feed. Automatic Mills are ruggedly constructed for long tough service. Available as a bench, skid or PTO trailer unit for farm and commercial work.

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160 - 9th Ave. N.W., Swift Current, Sask.

A co-operative at **SARAJEVO, YUGOSLAVIA**, has shipments of **HEREFORDS IN CALF TO POLL BULLS** to make up a total shipment of 45 pedigree Herefords from **BRITAIN**. Two bulls were used, one of them the property of the secretary of the British Polled Hereford Society.

A new association of **BREWERIES IN COLUMBIA** is in the middle of a program launched to expand national **BARLEY** production. Plans include about 25,000 acres of additional land being brought under cultivation for barley.

Exports of **FRESH OR FROZEN CHICKEN** from the **UNITED STATES** are on the increase. In the period Jan.-Nov., 1958, exports totalled 32,000,000 lbs. — a 25% increase over the same period of 1957. **SWITZERLAND** continues to be the major market for U.S. chicken, importing 9,900,000 lbs. during the period, 80% more than in the same period of the previous year. **CANADA** and **WEST GERMANY** are also high on the list of importers from the U.S.

NEW ZEALAND is faced with the problem of marketing some 16,000,000 carcasses from last season's **LAMB CROP**. A record 31,000,000 lambs were born October-December in New Zealand, three million more than the previous record.

A **DAIRY SHORTHORN** cow at **BINFIELD, BERKSHIRE, ENGLAND**, last fall gave birth to quadruplets of a total weight of 152 pounds. The cow is four years old, and at last report, both she and the calves were doing well. The owner is Major John Wills, Lord Lieutenant of Berkshire, who represents Queen Elizabeth II there at official functions; the office is an honorary one.

MEXICO has been trying to market its near-record **COTTON** crop this winter. Estimates put production at 2,200,000 bales, a 6 per cent increase over the 1957-58 crop, and second only to the huge 1955-56 production. Increased acreage last year made the difference... a boost last year of some quarter million more acres than the year before.



"Must the plans for the new water works be drawn up here?"

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Get 'PERMACO' COBALT BULLETS At Feed and Drug Stores

Canadian Distributor: VIOBIN (CANADA) LIMITED, St. Thomas, Ont.

The Lady

OF THE HOUSE.



Guest Contributor — EVELYN MORGAN

Your House and Mine

TODAY'S homemaker has an abundance of papers to choose from to help her with her house duties. There are many kinds of disposable tissues, towels, curtains, table cloths, various wax papers for wrapping, and more recently cooking foil.

Besides these most homes have a large supply of reading material, that have dozens of uses, after they are read.

Following are some of the ways we use them for work savers.

1. For a quick wipe around fry pans. Removes excess grease and makes easier dishwashing, and cleaner dish water.

2. To put in the sink strainer to catch any grease — so it will not clog the drain. Use at least three ply here. Water will soak through a little slower.

3. For the first wipe of oily hands that have been working with machinery.

4. For the bird cage. We cut a sheaf the size of the cage, and put several in. Busy days the top one is removed, and a quick cleaning done.

5. Full size sheets on the work table for all cleaning jobs. This includes poultry dressing, fish scaling, metal cleaning and polishing.

6. A paper bag can be a make-do flour-sifter if you are temporarily out of one. Measure the flour into the bag, hold it shut and shake vigorously.

If you have a favorite cake that is inclined to stick in the pan (upside down cake here) grease three narrow strips of heavy brown paper and lay in the pan, one each end, one in the middle, with an inch end sticking over the side to catch and help ease the cake out.

The small cardboard cartons we buy which hold various frozen and fresh foods can also be used several times since they are quite sturdily made. They are very good for small cakes particularly if they have to be carried away from home.

SOME BUSY DAYS RECIPES

RHUBARB CRISP

- 6 cups rhubarb, cut in short lengths
- 1 cup flour
- $\frac{3}{4}$ cup brown sugar
- 1 cup butter or other shortening
- Salt
- Lemon flavoring

Put the rhubarb in a shallow baking dish. If it is tart sprinkle

a half cup of white sugar on first. Mix remaining ingredients as pie crust and sprinkle one third lightly on fruit. Tap the dish gently to mix it with the fruit. The remainder of the mix press down on top of fruit. Bake $\frac{3}{4}$ hour at 400F.

SPARE RIB AND CARROT CASSEROLE

- 2 lbs. spare ribs, cut in 6-inch lengths
- 1 qt. pickled carrots, or canned, diced, or 3 cups fresh
- 2 large onions
- $\frac{1}{2}$ tsp. salt
- $\frac{1}{2}$ tsp. mustard
- 1 cup sweetened vinegar or juice from pickled carrots

Simmer the spare ribs at the back of the stove till done. Pour off excess fat. Put the carrots in a casserole, slice onions over, and lay the cooked spare ribs on top. Pour on the sweetened vinegar juice, and put in the oven to brown.

Serve with mashed potatoes. If you have left over potatoes, these may be placed on the top of the ribs for the last ten minutes to heat through. Keep the potatoes out of the juice though. Serves six generously.

QUICK SALMON DINNER

- 1 tin pink salmon, open and heat in the can
- 6 hard-boiled eggs
- 1 tin, peas, or asparagus or green beans, heated in can
- 6 slices toast
- 2 cups white sauce
- Grated cheese

Lay the toast on plates, spoon on a helping of salmon, one of vegetable, an egg split in two lengthwise. Pour over white sauce and add a tablespoon of grated cheese or more if desired. Serve as a complete meal for six or add celery and tomatoes for extras.

FOR THE LUNCH BOX — SUGARED FRUIT PEEL

Cut orange, lemon or grapefruit peel in slivers about one fourth inch wide at centre. Use kitchen shears for a neat job.

- 2 cups peel
- 2 cups water
- 2 cups of white sugar

Simmer the peel for about two hours, and pour off water. Peel should be soft and beginning to look transparent. Sprinkle on 1 cup sugar, and cook very slowly. It burns easily. Add a little more sugar until one half cup more is used. When it spins a good thread set it up in a warm place. Turn with a spoon as it dries up the syrup. When almost dry sprinkle re-

Children Like to Feel Important

WHEN small Bobby learns to read, he will be very proud of the accomplishment and want to "show off" to Mother and Daddy. No matter how busy you are, be sure to sit down with the little reader and listen patiently as he slowly goes over the words and sentences for you. Mothers are quite likely to do this, but sometimes fathers think it isn't necessary for them to join in. They are wrong about that because there is a real feeling of security to a child when both parents help him, or watch him, or encourage him, in any activity. Children like to feel that their parents are interested and that means BOTH parents, not just one. So remember to take a real interest in your child's efforts if you want him to keep trying to improve as time goes on.



maining sugar on and lay on wax paper. These pack very well as a lunch box goody or they may be used on plain iced cookies for added richness.

Cut up they can be added to plain milk puddings, or white raisin cake. Pack away any extras in a container with some air holes. These have quite a number of uses similar to those ways we use dried fruits.

The above simple recipes are chosen for a busy time of year when some of us have some not too experienced small help with the meals. All can be made by a child old enough to measure ingredients.

STRAWBERRY PRESERVES

Since strawberry season is relatively short, I would like to include this preserve recipe. It is a favorite that has a flavor of fresh berries.

- 4 cups berries, a little under ripe
- 1 tbsp. white vinegar
- 3 cups sugar

Wash berries, add the vinegar and heat through in a covered saucepan, shaking them to prevent sticking. Add the sugar, and bring slowly to a boil. Boil gently for 20 minutes. Remove from fire and let stand over-

night in syrup in saucepan. Put into jars and cover with parafin. This jam is a little thinner than usual but they do taste like fresh berries. Extra good in frozen desserts.

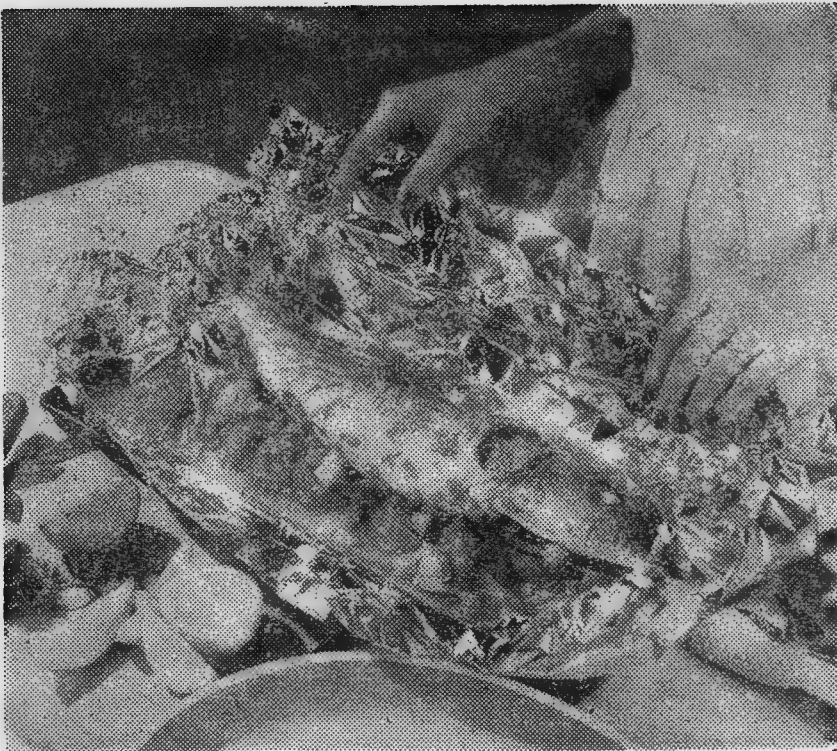
HOUSE PLANTING HINTS

Window sills are the place for many plants, but an interesting choice of containers can make all the difference in the world.

Teapots sometimes have the handle or spout broken, which ruins it for its original purpose but it will still make an attractive geranium pot, and right for the kitchen decor. Just be sure it contains one third small rocks or gravel for good drainage. The spout is handy too, to pour off excess water.

Head Cheese Pans: The butcher shops give these away and they fit a sill perfectly. Again, be sure there is gravel in the bottom unless you want to make drainage holes. But as these pans are quite deep it isn't necessary, and they are so much cleaner without holes.

If your soil is clay, save tea leaves in an old pail. Mix with an equal amount of soil. It is very similar in texture to peat moss. Sand should also be added if possible.



Here's An Idea . . .

STRIPED BASS IN FOIL

Aluminum foil has become a standard item in our kitchens fairly recently. It is especially useful in the preparation of fish, which are ready to fall apart when properly cooked, and occasionally do, when they get lifted from the cooking utensil, and spoiling its attractiveness.

Cook or bake all fragile foods in foil for perfect appearance. If its impossible to lift the food out, turn the foil back, cup it, and slide onto a serving platter. The edges may be attractively cut to fancy points with shears to dress up the dish even more.

Illustrated is a striped bass. It is first stuffed with bread stuffing containing parsley, celery, and onion, and butter. Moisten with lemon juice and hot water.

Place a sheet of foil on a cookie tray or shallow pan, and grease the spot where the fish will rest. Lay the fish on and surround it with your favorite vegetables. This one features tomato wedges, tiny onions, and diced carrots and celery. If you have a favorite fish sauce, pour it on, and wrap carefully sealing the edges with two folds. Bake at 400° F. for one and a half hours. The last fifteen minutes turn back the foil, butter top of fish or lay on a strip of bacon, and brown lightly. Slide foil and fish to platter.

Prospects for long milk storage

AN Oshawa, Ontario, dairy employee, Albert Liebrechts, is said to have developed a new pasteurization process which could revolutionize the milk industry. Under his system, it is claimed, milk could be kept for months without refrigeration. A housewife could order milk once or twice a month and store it in containers to be used as needed. He says it would taste like any other whole milk. Mr. Liebrechts said that with present methods, both milk and bottles are sterilized but some bacteria always remain. Under ordinary

conditions these bacteria reproduce rapidly causing milk to sour in a few days.

Use for plastic bags

PLYOFILM bags, the kind you get from packaged fruits and vegetables, can be useful in grafting. Grafts often fail to grow because the scion dries out and dies before the graft has had time to heal. If you have trouble from this cause, try slipping a plyofilm bag over the scion, tying it below the graft. This should be done as soon as the graft is made. Leave the bag on until growth from the scion shows that the graft has healed.

Aunt Sal Passes

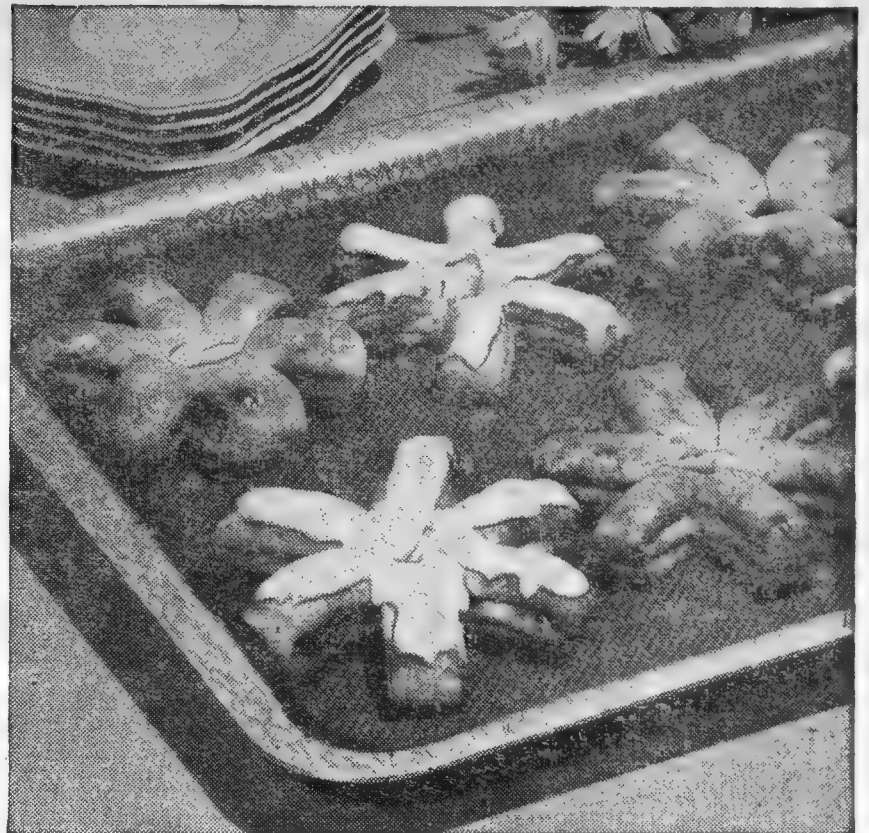


THE many, many readers of Aunt Sal's column, which appeared in this magazine for several years, will be saddened to hear that Aunt Sal, who was Mrs. Sara Nelson, passed away recently at her home in Lethbridge, Alberta.

It was with great reluctance that Aunt Sal, because of illness, gave up her writing some months ago, and it was a real disappointment to the Farm and Ranch Review and her readers when her column stopped.

Through her practical, down-to-earth advice to farm women and her untiring efforts to help them with their household problems Aunt Sal has left a host of friends all across Western Canada. The sort of help she gave and the effort often required to give such help was possible only

because of a genuine love of people and a sincere interest in their welfare. All of us have lost a good and helpful friend.



Delightful Danish Pastry Stars

Made by a famous Danish pastry chef? Goodness, no! If you bake at home, you can create these dainty and delectable pastry treats right in your own cosy kitchen . . . they're *that* easy to make with Fleischmann's Active Dry Yeast! Bake a batch of these scrumptious Danish Pastry Stars tomorrow. They're delicious!

DANISH PASTRY STARS

Measure into bowl

$\frac{1}{2}$ cup lukewarm water

Stir in

1 teaspoon granulated sugar

Sprinkle with contents of

1 envelope Fleischmann's Active Dry Yeast

Let stand 10 minutes, THEN stir well.

Meantime, sift together into bowl

$2\frac{3}{4}$ cups once-sifted all-purpose flour

2 tablespoons granulated sugar

$\frac{1}{2}$ teaspoon salt

Shred on medium shredder

$\frac{1}{2}$ pound chilled butter or margarine

and stir into flour mixture.

Beat well

1 egg

and stir in dissolved yeast.

Make a well in flour mixture and add yeast mixture; combine thoroughly.

Chill until firm, about 1 hour. Turn out dough on lightly-floured board or

canvas. Roll out dough to a 15 x 25-inch rectangle; cut into fifteen 5-inch squares. Spread each square thinly with thick raspberry jam.

Fold $\frac{1}{3}$ of square over, then over again.

Cut five slashes along one side of dough to within $\frac{1}{8}$ inch of other side. Form into a circle, separating at slashes to form a 6-point star. Place pastries on cookie sheets; chill about $\frac{1}{2}$ hour. Brush with slightly-beaten egg. Bake in a hot oven, 450°, until golden—7 to 10 minutes. When cold, spread stars, if desired, with following icing:

Combine 1 cup once-sifted icing sugar and $\frac{1}{8}$ teaspoon vanilla; mix in sufficient milk to make a stiff icing.

Yield—15 pastries.



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HELP WANTED - FEMALE

TOP SALARY for reliable girl for household help. Care of two children. All electrical conveniences. Private room in nice Calgary home. Box No. 38, Farm and Ranch Review, Calgary, Alta.

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FENCE staples should be driven at an angle slightly off parallel from the posts to prevent splitting or widening checks in the post.

Dual-purpose crop

WHEN grown for seed production Russian wild ryegrass can be used as a dual-purpose crop. After a crop of seed is harvested the aftermath can be used for fall and winter pasture. The grower who does not utilize the aftermath in this manner is losing a valuable, nutritious crop which can be used to supplement his income from seed production, and to act as a safeguard against complete loss of revenue in the event of a seed crop failure.

Sorghum Alnum not proved

IN regard to Sorghum Alnum grass, the Supervisor of Crop Improvement, Service, Alberta Department of Agriculture has this to say:

"Travelling salesmen for Sorghum Alnum have used glowing phrases to describe the virtues of this southern grass. According to these men and the literature they distribute Sorghum Alnum is a wonder grass, the equal of which has never been heard of before.

"They fail to mention, however, that none of these claims can be substantiated by any experimental data under Alberta conditions. Nor is any mention made of the fact that in the State of Washington, Sorghum Alnum has been placed on the primary (prohibited) noxious weed seeds list, effective April 1st, 1958.

"Farmers should bear these facts in mind when considering buying seed of an unproven grass at a high price from an over enthusiastic salesman."

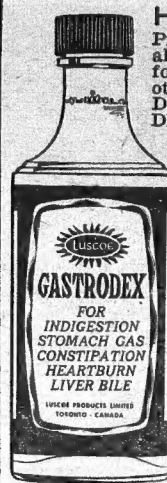
Caution urged

GREATER use is now being made of herbicides, insecticides, and other chemicals for the farm, garden and home. These pesticides are valuable aids in combatting weeds, insects and other pests. Most can also be extremely dangerous if not used properly, advises J. B. Gurba, Alberta Department of Agriculture. Even the chemicals usually considered non-toxic can harm children or adults if inadvertently swallowed in sufficient amount.

New wheat being tried

A NEW variety of soft white wheat known as Kenhi will be grown in irrigated areas of Alberta this year in an attempt to frustrate attacks of stem and leaf rust.

Kenhi was produced by plant breeders at the University of Alberta with assistance from the Canada Department of Agriculture. It is the second variety produced in recent years succeeding Lemhi, recommended prior to 1957, and Lemhi 53 which gave some protection against rust in 1957 and 1958.



HEALTH is LIFE:

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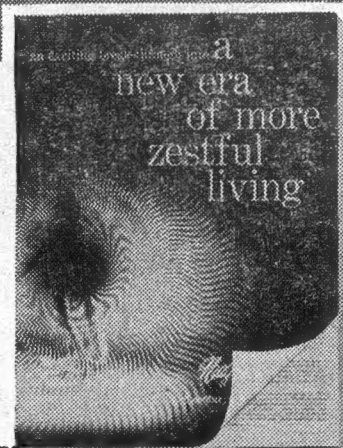
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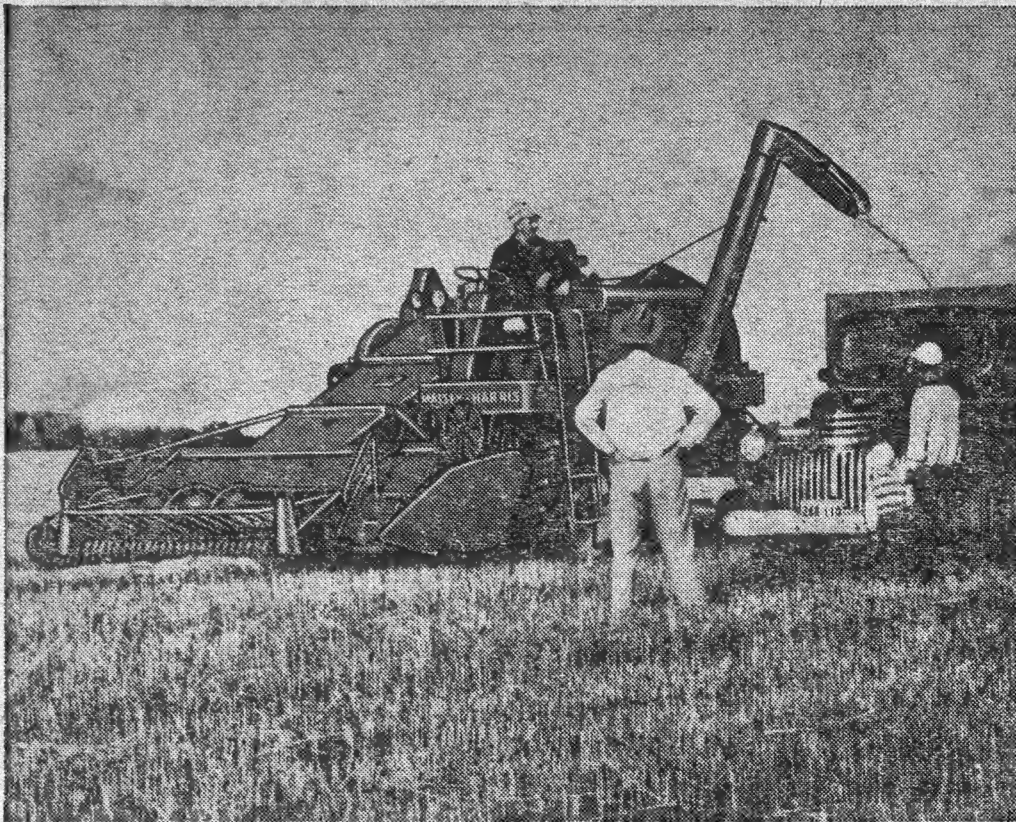
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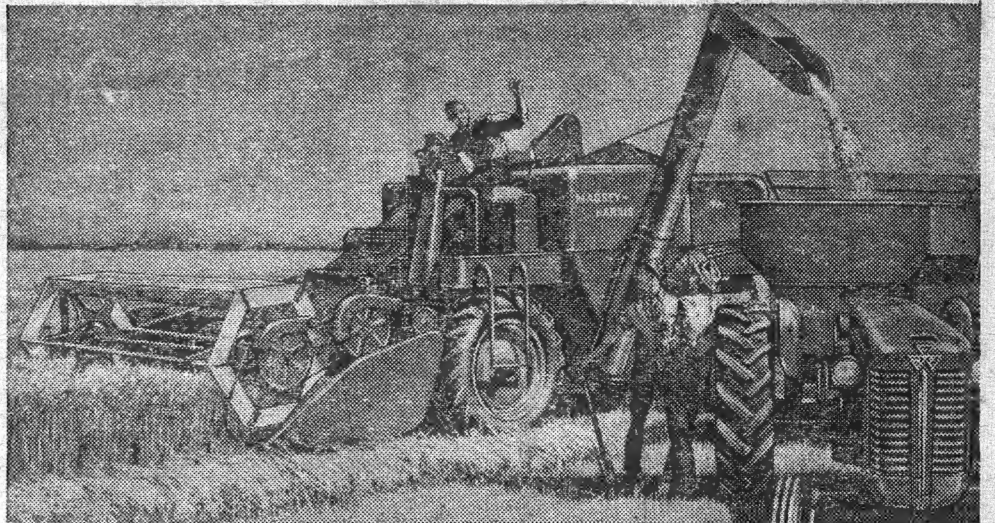
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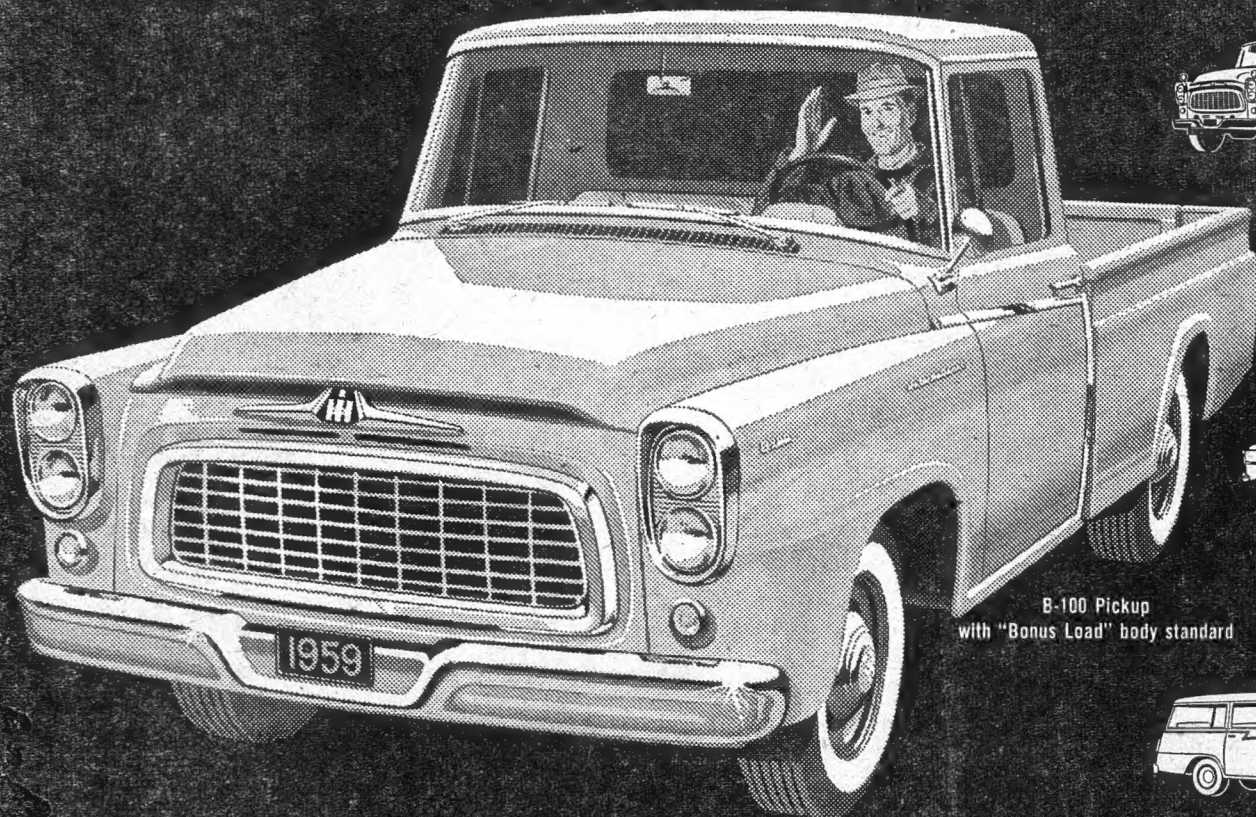
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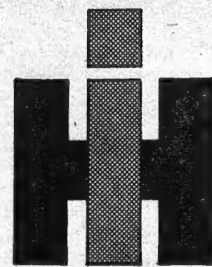
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